



Sawyer County

Agenda

Land, Water, & Forest Resources Committee Meeting
Wednesday, December 8, 2021 @ 8:30 AM
Assembly Room

Page

1. CALL TO ORDER

- a. To view or participate in the **virtual meeting** from a computer, iPad, or Android device please go to <https://zoom.us/j/99719807086> You can also use the dial in number for listening only at **1-312-626- 6799** with the Webinar ID: 997 1980 7086. If additional assistance is needed please contact the Sawyer County Forestry Office at 715-634-4846 prior to the meeting. This meeting will be recorded and will be available on our website at: <https://sawyercountygov.org>. If you are on a computer, click the "Raise Hand" button and wait to be recognized. If you are on a telephone, dial *9 and wait to be recognized.

2. ROLL CALL

3. CERTIFICATION OF COMPLIANCE WITH THE OPEN MEETINGS LAW

4. PLEDGE OF ALLEGIANCE

5. PUBLIC COMMENTS

- a. At this time, members of the public will be given the opportunity to address the Committee on items not on the agenda. Please adhere to the following when addressing the Committee:
 - Comments will be limited to 3 minutes or less per individual.
 - Comments should be directed to the Committee as a whole and not directed to individual Committee members.
 - The Committee cannot respond to your comments during this time.
 - Please sign in and fill out a public comment sheet if you wish to speak on an item.

6. CONSIDER APPROVAL OF MINUTES FROM PREVIOUS MEETING

- a. [11.3.21 LWFR Minutes DRAFT](#)

7. EVENTS (DISCUSSION AND POSSIBLE ACTION)

8. SAWYER COUNTY TREASURERS DEPARTMENT

- 6 - 8 a. OTC Land Sale - Town of Edgewater Tax ID#008-937-01-4207
(discussion and possible action)
[OTC Land Sale Town of Edgewater Tax ID#008-937-01-4207](#)

9. LAND RECORDS AND COUNTY SURVEYOR DEPARTMENT REPORT

10. SAWYER COUNTY FORESTRY DEPARTMENT

- 9 - 12 a. Recreational Trails Report
 Motorized-
 Non-motorized-
- b. County Forestry Report
[Nov 21 Forestry Report](#)
- c. Carbon Tax Update
- 13 d. DNR Forestry Report
[DNR Forestry Report November 2021](#)

11. ZONING/ CONSERVATION DEPARTMENT

- 14 - 20 a. County Report
- b. Public Hearing for Proposed Decontamination Ordinance
 Motion needed to open and close Public Hearing for Decontamination
 Ordinance
[Clean Decontamination Ordinance v3](#)
- 21 - 27 c. Discussion/Action for proposed Decontamination Ordinance
[Decontamination Resolution](#)
[Exhibit A](#)
- 28 - 60 d. Upper Brunet River Dam Project (Discussion/Possible Action to
 approve plans and submit back to DNR. Possible Action would
 also include sending out bid proposals packets.)
[Summary of work](#)
[Plans 11-29-21](#)
[Review 1](#)
[Upper Brunet Reconstruction - Plan Review Comments #1](#)
[DSCF0003](#)
[pg 6 proposal + pg32-33 pay app](#)
- e. USDA report

- f. LCO report

12. FUTURE AGENDA ITEMS

13. CORRESPONDENCE, REPORTS FROM CONFERENCES AND MEETINGS, OTHER MATTERS FOR DISCUSSION ONLY

14. ADJOURNMENT

DISCLAIMER:

A quorum of the County Board of Supervisors or of any of its committees may be present at this meeting to listen and observe. Neither the Board nor any of the committees have established attendance at this meeting as an official function of the Board or committee(s) or otherwise made a determination that attendance at the meeting is necessary to carry out the Board or committee's function. The only purpose for other supervisors attending the meeting is to listen to the information presented. Neither the Board nor any committee (other than the committee providing this notice and agenda) will take any official action with respect to this noticed meeting.

Copy sent via email to: County Clerk and News Media. Note: Any person wishing to attend whom, because of a disability, requires accommodation should call the Sawyer County Clerk's office (715.634.4866) at least 24 hours before the scheduled meeting so appropriate arrangements can be made.

Land, Water, and Forest Resources Committee Mission Statement: "Develop, guide and implement policies that protect and ensure the sustainability of our bio-diverse community."

**Minutes of the November 3rd meeting of the Sawyer County
Land, Water & Forest Resources Committee
Of the Sawyer County Board of Supervisors
Assembly Room; Sawyer County**



Voting Committee Members (X) Present:

- ☒ Chair: **Bruce Paulsen**
- ☒ Ron Buckholtz – Vice Chair
- ☒ Jesse Boettcher
- ☒ Brian Bisonette - Virtual
- ☐ Marc Helwig
- ☐ Kevin Sheptick

Others Present:

Lynn Fitch
Mike Coleson
Jay Kozlowski
Greg Peterson
Don Mrotek
Roy Zubrod
Dianne Ince

Barb O'Brien
Pat O'Brien
Tom Guyer
Cindy Ferarro
Linda Zillmer- Virtual

Call to Order – Chair Bruce Paulson called the meeting to order at 8:30 am.

Certification of Compliance with the open meeting law was met. Roll Call was taken; a quorum was met.

Meeting Agenda –

Public Comments – Linda Zillmer

Minutes from the previous meeting – A motion was made by Mr. Buckholtz to approve the minutes of the October 13, 2021, meeting; second by Mr. Boettcher. Motion carried without negative vote.

Events – Mr. Peterson presented a request for Camba's Global Fat Bike Day, a guided tour and not a race. A motion was made by Mr. Buckholtz; second by Mr. Boettcher to approve this request. Motion carried without negative vote.

Sawyer County Treasurer's Department – Two OTC land sales were presented by Treasurer Ince. A motion was made by Mr. Buckholtz; second by Mr. Boettcher to accept OTC Sale #002-121-11-0103 in the Town of Bass Lake and move forward to County Board for approval. Motion carried without negative vote. A motion was made by Mr. Buckholtz; second by Mr. Boettcher to accept OTC Sale #030-190-04-0302 in the Town of Weirgor and move forward to County Board for approval. Motion carried without negative vote.

Land Records and County Surveyor Department Report –

Sawyer County Forestry Department

Motorized Trails Mr. Mrotek reported that the October shoulder season for motorized trail use was busier than previous years. In January, the snowmobile association will host a statewide meeting here in Hayward. He advised that the NorTac meeting and trail ride was held in Rusk County. Sawyer has over 200 miles of trails while Rusk County has 20-30 miles. NorTac members are working on by-laws and strategic planning.

Nonmotorized Trails

County Forestry Written reports were distributed. Mr. Peterson stated stumpage revenue will meet budget.

Timber Sales

Seeley Buffer Request -- Mr. Peterson distributed a Timber cutting aesthetics policy and map. Parts of the policy as they pertain to the Seeley Trail system were reviewed. Public comment was made by Barb O'Brien, Pat O'Brien, Tom Guyer, Don Mrotek, and Cindy Ferarro. Going forward Mr. Peterson will work with the Seeley Lions Club and Mr. Guyer to get a better idea as to how we can mitigate aesthetic issues without going through the official buffer process.

Mr. Kozlowski introduced the new zoning conservation technician assistant, Natalie Ehrler. Natalie is a recent Northland College graduate. He noted that the department has been busy addressing zoning violations and will provide an update on that in January.

Zoning/Conservation Department Report – A written report was provided.

Budget Discussion – No recommendations came forth.

Other Topics for Discussion Only -

Meeting Date/Time – The next meeting of the Land, Water & Forest Resources Committee will be Wednesday, December 8, at 8:30 am in the Assembly Room.

Meeting adjourned at 9:45 am
Minutes recorded by Lynn Fitch, County Clerk

DRAFT

APPLICATION TO PURCHASE COUNTY-OWNED LAND

SAWYER COUNTY TREASURER'S OFFICE
P.O. BOX 935
HAYWARD, WI 54843-0935 715/634-4868

DERICK D BACHA

PLEASE PRINT THE FULL NAME(S) AS YOU WANT IT LISTED ON THE DEED

540 MOON LAKE DRIVE APT #4 RICE LAKE, WI 54868
ADDRESS CITY, STATE, ZIP

PHONE NUMBER 715.790.6620

I HEREBY APPLY FOR THE PURCHASE OF ITEM NUMBER 30 INDICATED ON THE SAWYER COUNTY LAND SALE LIST DATED 2021 DESCRIBED AS FOLLOWS:

<u>PRT NW 1/4 SE 1/4, LOT 11, CSM 7/312 #147 01 37N 9W</u>	<u>5.08</u>
DESCRIPTION	SECTION TWN SHP RANGE ACRES

LEGACY PIN # 008-937-01-4207

I AM SUBMITTING PAYMENT, MADE PAYABLE TO THE SAWYER COUNTY TREASURER, OF \$ 8630⁰⁰ WHICH IS AT LEAST THE AMOUNT OF THE MINIMUM BID AT THE LAST ADVERTISED LAND SALE, PLUS A \$30.00 RECORDING FEE.

I have read and understand the NOTICE provision as printed below.

SIGNED: 

DATED: 11/24/2021

NOTICE

The Land, Water and Forest Resources Committee of the Sawyer County Board of Supervisors reserves the right to accept or reject any and all bids. Parcels (and improvements thereto) are sold "as is" and are subject to any and all reservations, easements, and exceptions of record; and are subject to the provisions of Sawyer County zoning, sanitary code, and subdivision control ordinances and regulations, and to any and all federal, state and local government laws and regulations. By applying for purchase of parcels included in this list the successful applicant agrees to hold Sawyer County harmless for any and all costs and expenses that might be required for procurement of evidence of title, property boundaries, access rights and/or development of said access, and for the condition of the land and/or improvements thereto.

The buyer is responsible for inspection of property prior to the sale. Sawyer County does not guarantee title, acreage, access rights, location of property boundaries, or condition of the land and/or improvements thereto. Sawyer County will issue only quit claim deeds, conveying only whatever interest Sawyer County has in each parcel, upon sale of the parcels, and will reserve any existing road right-of-way and flowage easements. Acreage amounts listed for each parcel in the tax roll and on the land sale list, and tax parcel map depictions of parcels may not be accurate and are not guaranteed by Sawyer County.

Real Estate Sawyer County Property Listing

Today's Date: 11/24/2021

Property Status: Current

Created On: 2/6/2007 7:55:15 AM



Description

Updated: 1/3/2020

Tax ID:	8046
PIN:	57-008-2-37-09-01-4 02-000-000070
Legacy PIN:	008937014207
Map ID:	.14.7
Municipality:	(008) TOWN OF EDGEWATER
STR:	S01 T37N R09W
Description:	PRT NWSE LOT 11 CSM 7/312 #1487
Recorded Acres:	5.080
Calculated Acres:	5.030
Lottery Claims:	0
First Dollar:	No
Zoning:	(F-1) Forestry One
ESN:	430



Tax Districts

Updated: 2/6/2007

1	State of Wisconsin
57	Sawyer County
008	Town of Edgewater
650441	Birchwood School District
001700	Technical College



Recorded Documents

Updated: 8/17/2020

IN REM JUDGMENT	
Date Recorded: 7/30/2020	425354
WARRANTY DEED	
Date Recorded: 3/5/1987	203842 401/61
CERTIFIED SURVEY MAP	
Date Recorded: 7/17/1980	174668



Ownership

Updated: 8/17/2020

SAWYER COUNTY	HAYWARD WI
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Billing Address:

SAWYER COUNTY
10610 MAIN ST STE 10
HAYWARD WI 54843

Mailing Address:

SAWYER COUNTY
10610 MAIN ST STE 10
HAYWARD WI 54843



Site Address * indicates Private Road

N/A



Property Assessment

Updated: 6/28/2021

2021 Assessment Detail

Code	Acres	Land	Imp.
X3-EXEMPT COUNTY	5.080	0	0

2-Year Comparison

	2020	2021	Change
Land:	8,600	0	-100.0%
Improved:	0	0	0.0%
Total:	8,600	0	-100.0%



Property History

N/A

2021 SAWYER COUNTY LAND SALE

In compliance with section 75.69, Wisconsin Statutes, the Land, Water, and Forest Resources Committee of the Sawyer County Board of Supervisors will accept bids on the following parcels of county-owned land.

The Land, Water, and Forest Resources Committee of the Sawyer County Board of Supervisors reserves the right to accept or reject any or all bids. Sawyer County will not accept bids from property owners who owe delinquent taxes at the time of bidding. Parcels (and improvements thereto) are sold "as is" and are subject to any and all reservations, easements, and exceptions of record; and are subject to the provisions of Sawyer County zoning, sanitary code, and subdivision control ordinances and regulations, and to any and all federal, state, and local government laws and regulations. By applying for purchase of parcels included in this list the successful applicant agrees to hold Sawyer County harmless for any and all costs and expenses that might be required for procurement of evidence of title, property boundaries, access rights and/or development of said access, and for the condition of the land and/or improvements thereto. The buyer is responsible for inspection of the property prior to the sale. Sawyer County does not guarantee title, acreage, access rights, location of property boundaries, or condition of the land and/or improvements thereto. Sawyer County will issue only quit claim deeds, conveying only whatever interest Sawyer County has in each parcel, upon sale of the parcels, and will reserve any existing road right-of-way and flowage easements. Acreage amounts listed for each parcel in the tax roll and on the land sale list, and tax parcel map depictions of parcels may not be accurate and are not guaranteed by Sawyer County.

Legacy Parcel Identification Number	Abbreviated Legal Description	Sec/Twn /Range	Approx. Acreage	Minimum Bid \$
TOWN OF BASS LAKE				
The County owns additional lots in the <u>Northwoods Beach Subdivision</u> and will sell at estimated fair market value established for such lots by the town assessor				
19. 002-109-12-3300	Abendpost Beach Subdivision, 2 nd Addition, Lots 33-36, Incl, Blk 12	31.40.8	.275	\$1200
24. 002-157-03-1001	Malar Beach Subdivision, Lots 10-19, Incl, Blk 3 & Lots 29-38, Incl, Blk 3	30.40.8	1.379	\$14,900
29. 002-940-08-4403	Part SE ¼ SE ¼	8.40.9	2.76	\$31,600
TOWN OF EDGEWATER				
30. 008-937-01-4207	Prt NW ¼ SE ¼, Lot 11, CSM 7/312 #1487	1.37.9	5.08	\$8,600
TOWN OF ROUND LAKE				
35. 024-741-34-4203	Prt NW ¼ SE ¼, Lot 1, CSM 18/120 #5347	34.41.7	2.01	\$77,700
TOWN OF SPIDER LAKE				
36. 028-642-20-1417	Part SE ¼ NE ¼	20.42.6	.98	\$10,200
TOWN OF WEIRGOR				
37. 030-190-02-1300	Village of Weirgor, Prt Lots 13-15, Blk 2	17.37.7	.469	\$4,000
VILLAGE OF EXELAND				
41. 121-737-21-4305	Part SW ¼ SE ¼	21.37.7	.160	\$25,300
VILLAGE OF RADISSON				
42. 176-106-04-0800	Boncler's Addition, Lot 8, Block 4	22.38.7	.37	\$1,300
43. 176-171-19-0800	Lots 8-11, Block 19, 1st Addition	22.38.7	.32	\$10,500
VILLAGE OF WINTER				
44. 190-142-00-2800	Lot 28 Kinsley's Addition to the Village of Winter	33.39.5	.35	\$5,500
45. 190-190-05-1000	Lot 10, Block 5, Village of Winter, Original Plat	32.39.5	.180	\$26,000
46. 190-539-32-1204	Prt NW ¼ NE ¼, Lot 3, CSM 4/348 #854	32.39.5	.33	\$14,600

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Forestry Report November 2021

Active Sales

8 sales listed as active in month of November

Sale Date	# of Sales	Acres	Bid Value	Received	Est. Remaining
4/13/16	0	0	\$0	\$0	\$0
11/4/16	0	0	\$0	\$0	\$0
4/7/17	0	0	\$0	\$0	\$0
11/3/17	0	0	\$0	\$0	\$0
4/6/18	0	0	\$0	\$0	\$0
11/2/18	0	0	\$0	\$0	\$0
5/3/19	2	171	\$57,842.00	\$50,054.00	\$21,235.00*
11/01/19	2	113	\$40,889.40	\$11,463.76	\$29,425.64
5/5/20	2	134	\$63,410.96	\$15,852.74	\$47,558.22
11/3/20	0	0	\$0	\$0	\$0
5/7/21	2	192	\$230,560.00	\$83,069.95	\$147,490.05
10/22/21	0	0	\$0	\$0	\$0
Totals	8	610	\$392,702.36	160,440.45	\$245,708.91

Inactive Sales

Sale Date	# of Sales	Acres	Bid Value	Received	Est. Remaining
4/13/16	1	33	\$37,215.00	\$67,275.85	\$0*
11/4/16	1	55	\$23,800.00	\$11,829.91	\$11,970.09
4/7/17	4	443	\$153,790.00	\$73,725.13	\$89,566.79*
11/3/17	4	468	\$250,376.00	\$10,000.00	\$240,376.00
4/6/18	2	196	\$116,228.00	\$115,247.56	\$50,440.00*
11/2/18	4	264	\$116,751.75	\$8,175.80	\$108,575.95
5/3/19	8	756	\$337,035.50	\$115,830.46	\$221,205.04
11/01/19	8	600	\$472,804.74	\$244,911.69	\$238,397.74*
5/5/20	8	556	\$400,924.30	\$13,730.18	\$387,193.49
11/3/20	10	890	\$800,987.90	\$179,790.50	\$621,197.40
5/7/21	20	1591	\$1,371,319.60	\$234,788.06	\$1,177,884.34*
10/22/21	14	1139	\$963,604.20	\$0	\$963,604.20
Totals	84	6991	\$5,044,566.99	\$1,075,305.77	\$4,110,141.04

* Sales having overruns

** Sales having underruns

9 sale closed out in November.

Timber Sale Value (sold contracts-uncut) on file = **\$4,355,849.95**

<u>Timber Sale Revenue</u>	<u>November</u>	<u>YTD</u>
	\$205,479.81	\$2,221,992.21
<u>Christmas Trees/Boughs</u>	\$90	\$90
<u>Performance Bond Cashed</u>	\$0	\$0
<u>Other Revenue</u>		
<u>Camping/Firewood/Access/Hay</u>	\$516	\$1,352.00
<u>Park Reservations</u>	\$0	\$800
		<u>Budget</u>
Gross Timber Sale Revenue	\$2,222,082.21	\$1,850,000
10% Payment to Towns	\$222,208.22	
Net Timber Sale Revenue	\$1,999,873.99	
Total Other Revenue	\$2,242.00	
Timber Sale Revenue Billed Out	\$83,686.79	

Timber Sale Inspections	<u># month</u>	<u>YTD</u>
	19	252

Comments: Goal for timber sale inspections is generally one inspection per week while sale is actively being harvested or wood is being hauled.

Tract Establishment	<u># sales month/ YTD</u>	<u>acres month/YTD</u>	<u>Goal</u>
	0/43	0/3170	3600

Comments: Focus on fieldwork for tract establishment.

Recon Acres Updated	<u>November</u>	<u>YTD</u>	<u>Annual Goal</u>
	94	4300	6,000 acres

Comments: Recon is the assessment of geographic, structure and compositional attributes of forest stands. Field information is stored in the Wisconsin Forest Inventory & Reporting System (WisFIRS). Basic resource information is collected, stored and updated systematically and continuously. Database is used to analyze existing resources, evaluate management alternatives and assist in the development and implementation of management plans.

Good Neighbor Authority (GNA) Hours		
<u>October</u>	<u>FY22 Contract</u>	<u>YTD</u>
9	82	663.25
<u>Current Contract:</u> Sawyer County – DNR FY22 Stands Approximately 575 hours timber sale admin. \$40,046.54.		

Comments: Under the federal Good Neighbor Authority, the USDA Forest Service is authorized to enter into cooperative agreements with states to perform forest management activities on national forest lands. WDNR has entered into a GNA agreement with the Chequamegon-Nicolet National Forest (CNNF). WDNR is authorized to contract with counties to assist with forest management activities on national forest lands. The focus of the GNA program is to assist in the implementation of the CNNF Forest Plan, which will provide:

- Forest products to the local economy
- Collaboration between federal, state and county forest managers
- Improved health and resiliency of forestlands and watersheds within Wisconsin

Oak Wilt:
Nothing new to report, detection and treatment completed until next year.

Emerald Ash Borer:
Nothing new to report.

Mountain Bike Trails:
Nothing new to report.

Birkie Trail:
Nothing new to report.

ATV/UTV/Snowmobile Trails:
Trail 11 rehab project completed, 3.2 miles of rehab from the Tuscobia Trail to Lost Lake Road, \$86,865. Grant funded project.
Trail 31 rehab project completed, 0.4 miles rehab. \$10,700, grant funded project.
Trail 8 Boedecker Rd. to Seeley Fire Tower Rd rehab completed, 1.3 miles. \$38,910, grant funded project.
Trail 8 “OO” to Boedecker Rd rehab completed, 1.65 miles. \$33,300, grant funded project.
Trail 8 Telemark Rd to Camp 38 Rd rehab completed, 0.72 miles. \$16,965, grant funded project.
Camp 38 Rd rehab completed, 0.75 miles. \$27,275, grant funded project.

Parks:

Hatchery Park: Applied for Tourism Capital Grant for Hatchery Park. Grant is for repairs, maintenance and improvements. Grant amount requested is \$35,000 for resurfacing both parking areas, replacement and additional split rail fence, new picnic tables, and regarding and reseeding open lawn area around pavilion.

Nelson Lake Park: Nothing new to report.

Sawyer County LW&FR Committee Meeting
Wednesday, December 8th, 2021
DNR Forestry Report for November, 2021

Wildlife:

Elk Hunting Season: Early portion of the elk season closed on November 14th for state hunters but will reopen December 9-17.

White Tail Deer: On opening weekend, harvest numbers in northern Wisconsin were up about 10%. Reports will be available in December.

Grey Wolf: All inquiries regarding wolf management, hunting seasons and nuisance incidents should be directed to:

Randy Johnson

Phone: (715) 499-0010

e-mail: randy.johnson@wisconsin.gov

Mailing address: 107 Sutliff Ave., Rhinelander, WI 54501-3349

The status of wolf hunting is currently being litigated in the court system.

Furbearers: All current legal trapping seasons are now open in the state of Wisconsin.

Forestry:

Oak wilt presentation: To be given by Paul Cigan, Forest Health Specialist, WI-DNR. For information only.

Timber Sale Establishment: Two timber sale establishment projects are nearing completion in the Winter Block.

Sawyer County Decontamination Ordinance – DRAFT

Published and effective date*****

Ordinance 2021-**

Recitals

WHEREAS, Wisconsin law permits a county to adopt ordinances in order to further the quality and protection of its citizens', property owners' and visitors' health, welfare and safety;

WHEREAS, Aquatic Invasive Species (as defined below) inhabit numerous County lakes;

WHEREAS, Wis. Stat. § 30.07(2) and Wis. Admin. Code Ch. NR 40 prohibits the transport of Aquatic Invasive Species;

WHEREAS, the purpose of this Ordinance is to establish a local program to prevent the spread of Aquatic Invasive Species in the County and surrounding waterbodies by providing alternative methods by which watercraft operators may easily decontaminate their watercraft/trailers quickly and effectively at Decontamination Stations where available in the County; and

WHEREAS, this Ordinance mandates all watercraft/trailers use a Decontamination Station upon entering and exiting all waterbodies in the County when a Decontamination Station is present and functioning.

NOW, THEREFORE, the County Board of Supervisors for Sawyer County does ordain as follows:

Section 1. Definitions

- (a) "Aquatic Plant" means any nonwoody submergent, emergent, free-floating, or floating leaf plant and includes any part thereof, including, but not limited to, seeds, heads, roots, or associated mud. Aquatic Plant does not mean wild rice. Specifically, the term Aquatic Plant does not mean wild rice when being harvested with a permit issued under Wis Admin. Code NR 19.09 or any rights proffered by the Treaty of 1838.
- (b) "Aquatic animal" means all animals that live in, on, or near the water. This includes all vertebrate and invertebrate species, including, but

not limited to, reptiles, amphibians, fish, and shellfish, or their eggs, larvae, or young.

- (c) “Aquatic Invasive Species” has the meaning given in Wis. Admin. Code Ch. NR 40.02(3m) that Aquatic Invasive Species are any Invasive Species that dwell in water or wetlands.
- (d) “Boat” has the meaning given in Wis. Admin. Code Ch. NR 40.02(6).
- (e) “County” means Sawyer County.
- (f) “County Board” means the Sawyer County Board of Supervisors.
- (g) “Equipment” means any vehicle, Boat, Boat trailer, boating equipment, fishing equipment, hunting equipment and/or trapping equipment, or other equipment or gear of any type used from any inland or outlying water or from its bank or shore.
- (h) “Invasive” means all pathogens, plants, vertebrates and invertebrates species, including, but not limited to, zebra mussels, quagga mussels, rusty crayfish, spiny water flea, or any other Aquatic Invasive Species prohibited by the State of Wisconsin.
- (i) “Invasive Species” has the meaning in Wis. Stat. § 23.22 (1)(c), and Wis. Admin. Code Ch. NR 40.02(24), where invasive species means nonnative species, including hybrid, cultivars, sub taxa, and genetically modified variants whose introduction causes or is likely to cause economic or environmental harm or harm to humans’ health, and includes species, eggs, larvae, seeds, propagules and any other viable life-stage of such species. For invasive fish, Wis. Admin. Code Ch. NR 40.02(24), includes all nonnative species, but excludes established nonnative fish species.
- (j) “Terrestrial plant” means a plant that normally lives or grows on land and includes wetland species.
- (k) “Decontamination” means the process of removing Invasive Species or materials that may contain or transmit any type of Invasive Species, by disinfection, beyond physical removal, including those not visible or very difficult to see, or other methods.
- (l) “Decontamination Station” means any device provided at a public or private waterway access to remove all potential Invasive Species.

The station may consist of high temperature water (140 degrees Fahrenheit or more) applied with a pressure washer by trained personnel, a recommended chemical solution (such as a simple bleach/water 500 ppm solution, i.e., 2 tablespoons bleach per gallon of water) applied with a low-pressure sprayer, or any other acceptable technique as approved and abided by Wisconsin Department of Natural Resources Best Management Practices or other equivalent policy. Most stations consist of an informational sign, handouts, a long handled soft scrub brush and a long handle grab hook to help remove vegetation.

- (m) "Ordinance" means this Decontamination Ordinance adopted by the County Board, as it may be amended.

Section 2. Prohibited Transport of Aquatic Plants and Animals

- (a) If a Decontamination Station is available and functioning for use at a public or private access, the owner or user of a Boat or Equipment shall decontaminate the Boat or Equipment when entering and exiting out of the waterbody per posted directions and/or inspection protocol using the Decontamination Station provided as set forth herein.
- (i) When a Decontamination Station is available and functioning for use at a public or private access, no person may operate a Boat, Equipment, vehicle or transport any watercraft, including, but not limited to, Boats, personal watercraft, canoe, kayak, stand up paddleboard, surfboard, sailboat, paddleboat, or any Equipment including boating equipment, fishing equipment, hunting equipment and/or trapping equipment (including, but not limited to, floatation devices, nets, anchors, anchor lines, fishing lines, decoys, live wells, and waders), and any associated trailer or boating equipment from navigable waters onto a public highway if Aquatic Plants, terrestrial plants, or Aquatic Animals are attached, or to do so in violation of an order from a law enforcement officer who has reason to believe that Aquatic Plants or Aquatic Animals are attached, except as provided in Section 3.

- (ii) When a Decontamination Station is available and functioning for use at a public or private access, the owner or user of a Boat or Equipment shall remove all Aquatic Plants and Aquatic Animals prior to entry onto a public highway or launching a Boat or placing Equipment or trailers into a navigable water.
- (b) This section shall not apply to bait used on that particular waterbody in accordance with Wisconsin Department of Natural Resources rules and regulations.

Section 3. Exceptions to Transport of Aquatic Plants and Animals

Unless otherwise prohibited by law, a person may transport Aquatic Plants:

- (a) For disposal as part of a harvest or control activity conducted under an aquatic plant management permit pursuant to Wis. Admin. Code Ch. NR 109.
- (b) When transporting commercial Aquatic Plant harvesting equipment to a suitable location, away from any water body, for purposes of cleaning and removing Aquatic Plants or Aquatic Animals.
- (c) When harvested for personal or commercial use, as to be used as compost, or mulch, and in a sealed container.
- (d) When conducting an Aquatic Plant study for the purpose of vouchering or conducting an educational workshop.

Section 4. Liability of Owner, Lessee or User

- (a) In the event of a violation of Section 2 or 3 the owner, lessee, or user of the Boat or Equipment shall also be subject to the enforcement provisions of Section 5. An owner, lessee, or user may not be penalized as set forth in this subsection if either of the following apply:
 - (i) Another person was cited for or convicted for a violation of Section 2 or 3 arising out of the same incident; or
 - (ii) The Boat or Equipment was stolen.
- (b) Subsection (a) of this Section does not apply to a lessor of a Boat or Equipment if the lessor keeps a record of the name and address of the lessee and provides the same to law enforcement upon request.

- (c) Subsection (a) of this Section does not prohibit or limit the prosecution of the user/operator of a Boat or Equipment for violations in Section 2 or 3.

Section 5. Citation and Enforcement

- (a) Any person who violates a provision of this Ordinance shall be subject to forfeiture plus all surcharges, assessments and court costs will be added to the fines as applicable by law as follows:
 - (i) First offense: a warning letter from the County Aquatic Invasive Species Coordinator in conjunction with the County Sheriff, to be kept on file for five (5) years.
 - (ii) Second offense: a forfeiture of not less than \$300 plus court costs.
 - (iii) Third offense and subsequent offenses: a forfeiture of not less than \$1,000 plus court costs.
- (b) Each violation shall be considered a separate offense.
- (c) Legal action may be initiated against a violator by the issuance of a citation pursuant to Wis. Stat. § 66.0113(1)(a) and this Ordinance. This citation may be issued by a law enforcement officer of the County.
- (d) The citation shall consist of the following:
 - (i) The name and address of the alleged violator.
 - (ii) The factual allegations describing the alleged violation.
 - (iii) The time and place of the offense.
 - (iv) The section of the article violated.
 - (v) A description of the offense in a manner that can be readily understood by a person making a seasonable effort to do so.
 - (vi) The time at which the alleged violator may appear in court
 - (vii) A statement which in essence informs the alleged violator:
 - (1) That the alleged violator may make a cash deposit for the amount of the applicable penalty, to be mailed to

the county clerk of courts prior to the initial appearance on the citation.

- (2) That, if the alleged violator makes such a deposit, he or she need not appear in court unless subsequently summoned.
 - (3) That, if the alleged violator makes a cash deposit and does not appear in court, he or she either will be deemed to have tendered a plea of no contest and submitted to the forfeiture plus costs or will be summoned into court to answer the complaint if the court does not accept the plea of no contest.
 - (4) That, if the alleged violator does not make a cash deposit and does not appear in court at the time specified, the court may consider the nonappearance to be a plea of no contest and enter judgment for the amount of the penalty listed on the citation, and that the County may commence an action against the alleged violator to collect this penalty.
- (viii) A direction that if the alleged violator elects to make a cash deposit, the alleged violator shall sign an appropriate statement which accompanies the citation to indicate that he or she read the statement required under subsection (d)(vii) of this Section and shall send the signed statement with the cash deposit.
- (ix) Such other information as may be deemed necessary or as required by Wisconsin law.
- (e) Wis. Stat. § 66.0113(3), relating to a violator's options and procedures on default, is hereby adopted and incorporated herein by reference.
- (f) In the event of any conflicting terms between this Ordinance and any state law, the state law shall control.

NOW, THEREFORE, BE IT RESOLVED, that the Sawyer County Board of Supervisors, meeting this _____, 2021, approve this Ordinance.

Sawyer County Board of Supervisors
Resolution No. _____

Resolution to adopt Sawyer County Decontamination Ordinance

WHEREAS, the Sawyer County Zoning & Conservation Department is charged with protecting the quality and protection of its citizens, property owners' and visitors health, welfare and safety.

WHEREAS, Aquatic Invasive Species, inhabit numerous County lakes;

WHEREAS, Wis. Stat. & 30.07(2) and Wis. Admin. Code Ch. NR40 prohibits the transport of Aquatic Invasive Species;

WHEREAS, Wisconsin law permits a county to adopt ordinances in order to further the quality and protection of its citizens', property owners' and visitors' health, welfare and safety;

WHEREAS, Aquatic Invasive Species (as defined below) inhabit numerous County lakes;

WHEREAS, Wis. Stat. § 30.07(2) and Wis. Admin. Code Ch. NR 40 prohibits the transport of Aquatic Invasive Species;

WHEREAS, the purpose of this Ordinance is to establish a local program to prevent the spread of Aquatic Invasive Species in the County and surrounding waterbodies by providing alternative methods by which watercraft operators may easily decontaminate their watercraft/trailers quickly and effectively at Decontamination Stations where available in the County; and

WHEREAS, this Ordinance mandates all watercraft/trailers use a Decontamination Station upon entering and exiting all waterbodies in the County when a Decontamination Station is present and functioning.

WHEREAS, the Sawyer County Land, Water and Forest Resource voted at its December 8th, 2021 meeting to recommend to the Sawyer County Board of Supervisors approval and adoption of the Sawyer County Decontamination Ordinance, a copy of which is attached hereto and incorporated herein as Exhibit A (the **Decontamination Ordinance**).

WHEREAS, the Sawyer County Board of Supervisors determined, at its meeting on January 20th, 2021 that adopting the Decontamination Ordinance set forth in Exhibit A is warranted to protect its citizens, property owners' and visitors' health, welfare and safety.

NOW, THEREFORE, BE IT RESOLVED, that the Sawyer County Board of Supervisors,
does ordain as follows:

1. Adoption. The Decontamination Ordinance as set forth in Exhibit A is hereby adopted.
2. Administration. Sawyer County Conservation Administrator is hereby directed and empowered to take the steps necessary to implement the Decontamination Ordinance.

SEE ATTACHED EXHIBIT A

This Resolution and Decontamination Ordinance is recommended for adoption by the Sawyer County Board Supervisors at its meeting on _____, 2022 by this Sawyer County Land, Water, and Conservation Committee on _____, 2021.

Bruce Paulsen, Chairman

Ronald Buckholtz,

Jesse Boettcher

Marc Helwig

Brian Bisonette

This Resolution and the Sawyer County Decontamination Ordinance is hereby adopted by the Sawyer County Board of Supervisors this _____ day of _____, 2022.

Tweed, Shuman,
Sawyer County Board of Supervisors Chairman

Lynn Fitch
County Clerk

EXHIBIT A

Section 1. Definitions

- (a) “Aquatic Plant” means any non-woody submergent, emergent, free-floating, or floating leaf plant and includes any part thereof, including, but not limited to, seeds, heads, roots, or associated mud. Aquatic Plant does not mean wild rice. Specifically, the term Aquatic Plant does not mean wild rice when being harvested with a permit issued under Wis Admin. Code NR 19.09 or any rights proffered by the Treaty of 1838.
- (b) “Aquatic animal” means all animals that live in, on, or near the water. This includes all vertebrate and invertebrate species, including, but not limited to, reptiles, amphibians, fish, and shellfish, or their eggs, larvae, or young.
- (c) “Aquatic Invasive Species” has the meaning given in Wis. Admin. Code Ch. NR 40.02(3m) that Aquatic Invasive Species are any Invasive Species that dwell in water or wetlands.
- (d) “Boat” has the meaning given in Wis. Admin. Code Ch. NR 40.02(6).
- (e) “County” means Sawyer County.
- (f) “County Board” means the Sawyer County Board of Supervisors.
- (g) “Equipment” means any vehicle, Boat, Boat trailer, boating equipment, fishing equipment, hunting equipment and/or trapping equipment, or other equipment or gear of any type used from any inland or outlying water or from its bank or shore.
- (h) “Invasive” means all pathogens, plants, vertebrates and invertebrates species, including, but not limited to, zebra mussels, quagga mussels, rusty crayfish, spiny water flea, or any other Aquatic Invasive Species prohibited by the State of Wisconsin.
- (i) “Invasive Species” has the meaning in Wis. Stat. § 23.22 (1)(c), and Wis. Admin. Code Ch. NR 40.02(24), where invasive species means nonnative species, including hybrid, cultivars, sub taxa, and genetically modified variants whose introduction causes or is likely to cause economic or environmental harm or harm to humans’ health, and includes species, eggs, larvae, seeds, propagules and any other viable life-stage of such species. For invasive fish, Wis. Admin. Code Ch. NR 40.02(24), includes all nonnative species, but excludes established nonnative fish species.
- (j) “Terrestrial plant” means a plant that normally lives or grows on land and includes wetland species.
- (k) “Decontamination” means the process of removing Invasive Species or materials that may contain or transmit any type of Invasive Species, by disinfection, beyond physical removal, including those not visible or very difficult to see, or other methods.
- (l) “Decontamination Station” means any device provided at a public or private waterway access to remove all potential Invasive Species. The station may consist of high temperature water (140 degrees Fahrenheit or more) applied with a pressure washer by trained personnel, a recommended chemical solution (such as a simple bleach/water 500

ppm solution, i.e., 2 tablespoons bleach per gallon of water) applied with a low-pressure sprayer, or any other acceptable technique as approved and abided by Wisconsin Department of Natural Resources Best Management Practices or other equivalent policy. Most stations consist of an informational sign, handouts, a long handled soft scrub brush and a long handle grab hook to help remove vegetation.

- (m) “Ordinance” means this Decontamination Ordinance adopted by the County Board, as it may be amended.

Section 2. Prohibited Transport of Aquatic Plants and Animals

- (a) If a Decontamination Station is available and functioning for use at a public or private access, the owner or user of a Boat or Equipment shall decontaminate the Boat or Equipment when entering and exiting out of the waterbody per posted directions and/or inspection protocol using the Decontamination Station provided as set forth herein.
 - (i) When a Decontamination Station is available and functioning for use at a public or private access, no person may operate a Boat, Equipment, vehicle or transport any watercraft, including, but not limited to, Boats, personal watercraft, canoe, kayak, stand up paddleboard, surfboard, sailboat, paddleboat, or any Equipment including boating equipment, fishing equipment, hunting equipment and/or trapping equipment (including, but not limited to, floatation devices, nets, anchors, anchor lines, fishing lines, decoys, live wells, and waders), and any associated trailer or boating equipment from navigable waters onto a public highway if Aquatic Plants, terrestrial plants, or Aquatic Animals are attached, or to do so in violation of an order from a law enforcement officer who has reason to believe that Aquatic Plants or Aquatic Animals are attached, except as provided in Section 3.
 - (ii) When a Decontamination Station is available and functioning for use at a public or private access, the owner or user of a Boat or Equipment shall remove all Aquatic Plants and Aquatic Animals prior to entry onto a public highway or launching a Boat or placing Equipment or trailers into a navigable water.
- (b) This section shall not apply to bait used on that particular waterbody in accordance with Wisconsin Department of Natural Resources rules and regulations.

Section 3. Exceptions to Transport of Aquatic Plants and Animals

Unless otherwise prohibited by law, a person may transport Aquatic Plants:

- (a) For disposal as part of a harvest or control activity conducted under an aquatic plant management permit pursuant to Wis. Admin. Code Ch. NR 109.
- (b) When transporting commercial Aquatic Plant harvesting equipment to a suitable location, away from any water body, for purposes of cleaning and remaining Aquatic Plants or Aquatic Animals.

- (c) When harvested for personal or commercial use, as to be used as compost, or mulch, and in a sealed container.
- (d) When conducting an Aquatic Plant study for the purposed of vouchering or conducting an educational workshop.

Section 4. Liability of Owner, Lessee or User

- (a) In the event of a violation of Section 2 or 3 the owner, lessee, or user of the Boat or Equipment shall also be subject to the enforcement provisions of Section 5. An owner, lessee, or user may not be penalized as set forth in this subsection if either of the following apply:
 - (i) Another person was cited for or convicted for a violation of Section 2 or 3 arising out of the same incident; or
 - (ii) The Boat or Equipment was stolen.
- (b) Subsection (a) of this Section does not apply to a lessor of a Boat or Equipment if the lessor keeps a record of the name and address of the lessee and provides the same to law enforcement upon request.
- (c) Subsection (a) of this Section does not prohibit or limit the prosecution of the user/operator of a Boat or Equipment for violations in Section 2 or 3.

Section 5. Citation and Enforcement

- (a) Any person who violates a provision of this Ordinance shall be subject to forfeiture plus all surcharges, assessments and court costs will be added to the fines as applicable by law as follows:
 - (i) First offense: a warning letter from the County Aquatic Invasive Species Coordinator in conjunction with the County Sheriff, to be kept on file for five (5) years.
 - (ii) Second offense: a forfeiture of not less than \$300 plus court costs.
 - (iii) Third offense and subsequent offenses: a forfeiture of not less than \$1,000 plus court costs.
- (b) Each violation shall be considered a separate offense.
- (c) Legal action may be initiated against a violator by the issuance of a citation pursuant to Wis. Stat. § 66.0113(1)(a) and this Ordinance. This citation may be issued by a law enforcement officer of the County.
- (d) The citation shall consist of the following:
 - (i) The name and address of the alleged violator.
 - (ii) The factual allegations describing the alleged violation.
 - (iii) The time and place of the offense.

- (iv) The section of the article violated.
- (v) A description of the offense in a manner that can be readily understood by a person making a seasonable effort to do so.
- (vi) The time at which the alleged violator may appear in court
- (vii) A statement which in essence informs the alleged violator:
 - (1) That the alleged violator may make a cash deposit for the amount of the applicable penalty, to be mailed to the county clerk of courts prior to the initial appearance on the citation.
 - (2) That, if the alleged violator makes such a deposit, he or she need not appear in court unless subsequently summoned.
 - (3) That, if the alleged violator makes a cash deposit and does not appear in court, he or she either will be deemed to have tendered a plea of no contest and submitted to the forfeiture plus costs or will be summoned into court to answer the complaint if the court does not accept the plea of no contest.
 - (4) That, if the alleged violator does not make a cash deposit and does not appear in court at the time specified, the court may consider the nonappearance to be a plea of no contest and enter judgment for the amount of the penalty listed on the citation, and that the County may commence an action against the alleged violator to collect this penalty.
- (viii) A direction that if the alleged violator elects to make a cash deposit, the alleged violator shall sign an appropriate statement which accompanies the citation to indicate that he or she read the statement required under subsection (d)(vii) of this Section and shall send the signed statement with the cash deposit.
- (ix) Such other information as may be deemed necessary or as required by Wisconsin law.
- (e) Wis. Stat. § 66.0113(3), relating to a violator's options and procedures on default, is hereby adopted and incorporated herein by reference.

In the event of any conflicting terms between this Ordinance and any state law, the state law shall control.

SUMMARY OF WORK
(w/ Special Provisions)

PART ONE-GENERAL

1.1 SPECIAL PROVISIONS-GENERAL

1.1.1 Work Description: The work included in this section consists of furnishing all labor, materials, and equipment necessary to rehabilitate Upper Brunet Dam as shown on the plans and described in these specifications. In general, the rehabilitation includes: traffic control, draining Lake Loretta using the existing stop logs, installing upstream erosion control, installing sand bags/coffer dams as needed to dewater downstream work areas, concrete surface preparation, installing wire mesh reinforcing, concrete removal, leak sealing, concrete repair using shotcrete, construction and installation of stainless-steel vertical lift gates with chain hoist and lifting frame, riprap, site restoration, and bid alternates to add a third new vertical lift gate plus, concrete surface coating of the entire dam.

1.1.2 Project Funding: This project is being funded by Sawyer County and the WI DNR Municipal Dam Grant Program.

1.1.3 Disposal Site: The Contractor shall dispose of all excess material and construction debris off-site at a location and in a manner required by applicable regulatory agencies.

1.1.4 Anticipated Construction Schedule: The following schedule is subject to adjustment, if conditions warrant.

DNR Plan Approval
Commence Advertising
Bid Opening
Submit Bid Tabulation to DNR for Approval.....
Notice of Award.....
Pre-Construction Conference
Notice to Proceed
Begin Construction
Completion of all work
Final inspection
One-year warranty

The Contractor must complete all concrete work and gate installation within 150 consecutive calendar days after the Notice to Proceed. Liquidated damages in the amount of \$500 per day will be assessed after 150 days for failure to complete the project in the allotted time frame.

1.1.5 Utilities: The Contractor must notify all utilities for location, including the County, prior to construction.

Call Before You Dig (800) 242-8511
Sawyer County Dams Keeper – Tim Seidl (715) 634-8288
Sawyer County Highway Commissioner - Gary Gedart (715)-634-2691
Coordination with the utilities is required.

- 1.1.6** **Payments:** Final payment will be based upon actual installed quantities as measured and recorded. The quantities listed as: each, cubic yard, ton, lineal feet, half day, square foot, etc. in the proposal are estimates and will be adjusted at project completion based upon actual installed quantities. There will be no adjustment for lump sum bid items unless the lump sum bid item is deleted from the contract.
- 1.1.7** **Regulatory Agency Approvals:** The Wisconsin Department of Natural Resources Plan Approval is part of this contract. Any and all conditions listed shall be complied with.
- 1.1.8** **Shop Drawings** are required for all materials and equipment incorporated into the project. Please make all submittals electronically. Allow a minimum of 10 working days for approval by the Engineer and Owner.
- 1.1.9** **Project Record Documents/Field Prints (Construction Records)** shall be provided to the Engineer by the Contractor prior to final payment. The prime contractor is responsible to provide as-built data on the project for his work and all work completed by his sub-contractors. The prints shall show the Contractor's measurements and dimensions for all of the work completed. This information can be marked on the appropriate plan sheets of the Project Plans. These measurements will be used to verify quantities and used in preparation of the pay applications. In addition, the Contractor shall keep a daily written record of the progress of the project and the records shall be provided to the Owner on a weekly basis. Within the **daily record** the Contractor shall include at a minimum the following items: number of workers, lake level, weather conditions, description of work being performed by bid item and the quantity of each bid item completed if it is a unit cost bid item.
- 1.1.10** **A Portage Route** shall remain open at all times. There is not a signed or designated route.
- 1.1.11** **Storage of Materials:** The Contractor shall confine their equipment, storage of materials and operations of their workmen to the construction limits as permitted by the Owner. All materials stored on the site shall be protected from the elements by watertight coverings or shed with wood floors raised above the ground and protected from damage by barriers. The Owner assumes no responsibility for storage of materials.
- All materials shall be delivered in original sealed containers, with seals unbroken and with labels plainly indicating materials and directions for storage. Directions for storage shall be complied with unless specified to the contrary in the detailed Contract Specifications. Damaged materials shall be immediately removed from the site.
- 1.1.12** **Erosion Control Plan** shall be prepared by the Contractor and submitted to the Owner no less than 10 days prior to start of work. In any area where erosion potential exists, silt barriers shall be installed and left in place during construction. The cost for the Contractor's erosion control items shall be included as part of the listed bid items.
- 1.1.13** **Temporary Facilities:** The Contractor shall provide temporary facilities such as

electricity, toilets, onsite field office and heat. Also furnish, erect and maintain a weatherproof bulletin board for displaying permits, project information, etc. All temporary facilities shall be removed at job completion. There is no electricity at the site.

1.1.14 **Meetings:** The Contractor shall be prepared to attend up to three (3) progress meetings. These meetings may include representatives from the press, Township, WI DNR, County, Engineering Firm, and others.

1.1.15 **Progress Schedule:** The Contractor shall, within ten (10) days after the effective date of Notice to Proceed, furnish an electronic copy of a progress schedule covering his proposed operations of the project.

The bar graph or graphic network diagram shall clearly depict the order and interdependencies of activities planned by the Contractor as well as activities by others, which affects the Contractor's planning. For those activities lasting more than 30 days, either the estimated time for 25-50 and 75% completion or other significant milestone in the course of the activity shall be shown. In addition to the actual construction operations, the schedule shall show such items as submittal of samples and shop drawings, delivery of materials and equipment, construction in the area by other forces and other significant items related to the progress of construction. The graph or network diagram shall be printed or neatly and legibly drawn to a time scale.

The list of activities shall show for each activity the estimated duration and anticipated starting and finishing dates. Activities, which are critical to complete the project in shortest time, shall be identified. The cost of each activity shall be shown so the schedule can be cost loaded.

The Contractor shall submit, with each payment request, a copy of the schedule showing the current status of the project and the activities for which payment is being requested. If the project is behind schedule, a detailed report shall accompany the submittal stating why the project is behind schedule and what means are being taken to get the project back on schedule, including, if appropriate, contract time extensions.

The Schedule shall be revised:

- a) When a Change Order significantly affects the Contract completion date or the sequence of activities.
- b) When progress of any critical activity falls significantly behind the scheduled progress.
- c) When delay on a noncritical activity is of such magnitude as to make it become critical.
- d) At any time, the Contractor elects to change any sequence of activities affecting the shortest completion time.

The revised analysis shall be made in the same form and detail as the original submittal and shall be accompanied by an explanation of the reasons for the revisions.

1.1.16 **Safety:** All Work shall be done in accordance with OSHA standards and other specified regulations as noted in the Specifications and Special Provisions.

1.1.17 **Operation & Maintenance Data:** The Contractors shall furnish one electronic copy of all operation and maintenance data for all equipment. This data shall include a list of parts and recommendations for spare parts that should be kept on hand.

1.1.18 **Plan of Construction:** The following sequence of construction activities may be used by the contractor:

- Prepare and submit Plan of Construction.
- The DNR requires approval of all coffer dams. The DNR may require that plans be submitted to them for approval of the tailwater coffer dam/sand bags. If so the elevation of the concrete tailwater apron is 1378± and the normal tailwater elevation is less than 1380 i.e., less than 2' of depth. The stream bottom drops down at the end of the concrete apron. The coffer dam can consist of sand bags or similar devices.
- Prepare and implement the erosion control plan.
- Prepare and implement a lake dewatering plan. The stop logs shall be removed from the full height stop log bay to dewater the lake. The rate of dewatering shall not be greater than 0.5' per day. Normal pool is 1389± and the bottom of the stop log channel is 1378±. The project requires that all of the stop logs be removed and cleaned and the stop log channel inspected.
- 25% of base flow must pass downstream throughout construction.
- Prior to lake drawdown any active leaks shall be marked and predrilled for grouting.
- Concrete rehabilitation will be broken into 3 Phases to simplify dewatering
- Phase 1 Concrete Rehabilitation – left half: Begins when the lake level drops to elevation 1385 (bottom of stop log bay). Water is passed through bay 3, bays 1 and 2 are now dry. Install a coffer dam/sand bags from the downstream end of the full height pier past the tips of the wing walls plus across the left half of the channel. Dewater the area between the sand bags and the dam. The concrete on the left half of the dam can now be rehabilitated.
- During Phase 1 verify all plan dimensions for gate construction and complete shop drawings for the two vertical lift gates. Note: The third gate may be completed if Alternate 2 is accepted.
- Phase 2 Concrete Rehabilitation – right half: Begins when Phase 1 is completed and the lake level is at the invert of the full height stop log channel. Inspect and make any needed repairs to the steel stop log channel. Install temporary stop logs into bay 3 and cut an 18" bypass pipe into the face of the stop logs at the bottom of the first log. Extend the 18" by-pass pipe past the downstream wings. Remove the sand bags from across the left half of the dam and install them on the right half of the dam. Dewater the area between the sand bags and the right half of the dam. The by-pass pipe will keep the area dry. The concrete on the right half can now be rehabilitated.

- Phase 3 Concrete Rehabilitation – upstream concrete: Begin Phase 3 after Phase 2 is complete. Remove the downstream sand bags and by-pass pipe. Clean and re-install the stop logs in bay 3, one at a time while allowing 25% base flow to pass downstream. Complete the upstream concrete restoration.
- Install and test the two new vertical lift gates (three if the Alternate 2 is accepted).
- Install the riprap
- Site restoration

1.1.19

PROPOSAL SUBMITTAL: Items to be submitted with Bid:

DESCRIPTION	PAGE
Bid Form (Proposal)	5-7
Subcontractor List.....	8
Bid Bond	9-10

PART TWO

2.1 PROPOSAL

- 2.1.1 General:** This section discusses the Proposal and those bid items, which may need clarification. The Proposal does not list all work that needs to be completed, but only major items. The proposal is intended to represent all work necessary to fully complete the project. All items not specifically listed shall be considered incidental and their associated cost included with a listed bid item.
- 2.1.2 Mobilization** is the expense of moving to and returning from the construction site as well as the costs for bonds, insurance, administration, etc. This is a Lump Sum bid item and will be paid 2/3 on the first pay request and 1/3 on the final pay request.
- 2.1.3 Lake Drawdown** Shall include all labor and materials necessary to draw down and maintain the lake level during construction. This is a lump sum bid item and will be paid 60% on the first pay request and 40% on the final pay request. A minimum of 25% base flow shall pass downstream at all times. The lake can be lowered and maintained by removing the stop logs in bay 3. The polymer stop logs have lifting pins and the County has a lifting beam that is used to catch each stop log for removal. A chain hoist is connected to the overhead rail and is used to lift out the stop logs. The contractor may borrow the lifting beam. The lake can be fully drained during construction. The final testing and adjusting of the new gates shall be done when the lake is a full level.
- 2.1.4 Downstream Sandbagging/Coffer Dam** is a lump sum bid item. Cost shall include all material and labor necessary to install and remove the downstream sandbags or coffer dam. The sand bags or coffer dam shall be installed to allow all concrete restoration to be done in the dry. Dewatering of the space between the dam and sand bags shall be included in this bid item. The sandbags or coffer dam will need to be moved and relocated during construction in order to accommodate concrete rehabilitation. The

contractor can develop his own dewatering plan or may use the plan noted in Section 1.1.19 above. A typical sand bag installation detail is shown on plan sheet 7.

- 2.1.5** **Remove, Clean, Install New Seals, and Reinstall Polymer Stop Logs** will be paid for each log that is removed, cleaned, new seals installed (both bottom seals and face seals) and reinstalled. This bid item applies to the stop logs in Bay 3 and Bay 4. Bay 3 has a total of 12 stop logs and Bay 4 has 5. The existing stop logs were manufactured by Plasti-Fab and were installed in 2000. Call the factory representative for new seals, his phone number is 503-970-7589. Additionally, the steel columns and overhead lifting beam for Bay 3 and Bay 4 shall be prepared, primed and painted with two coats of coal tar epoxy.
- 2.1.6** **Grout Sealing/Crack Sealing** will be paid for by the gallon of urethane polymer grout injected into active leaks. The cost shall include all labor, equipment and material necessary to seal active leaks. Prior to lowering the lake all active leaks shall be located and marked; additionally, the County has some photographs showing active leaks during high water. After drawdown the location of the active leaks shall be prepared by hydro blasting. The area to be sealed shall be drilled using 5/8" dia. holes at a 45° angle to the surface so that the holes will intersect the leak/crack at 6" to 12" below the surface. Space drill holes along both sides of the crack as necessary to seal the crack, staggering the holes from one side to the other. Install the injector into each hole and flush with water before injecting the grout. The grout shall be injected per the manufactures approved installation procedures using a positive displacement pump. The water to urethane ratio shall be within the manufacture's recommendations and at the minimum necessary to seal the crack. After injection remove all injection ports and seal all holes. The urethane gel shall be AV-254 Gelseal or approved equal.
- 2.1.7** **Concrete Surface Preparation** will be paid for by the square foot prepared and measured. The cost shall include all labor, material and equipment necessary to prepare the existing concrete surface to receive shotcrete. The existing concrete surface shall be prepared using a hydro blast. The pressure of the hydro blast shall be sufficient to remove all loose concrete, remove surface buildup, clean out all cracks, and prepare a roughened surface to receive shotcrete. All visible surfaces of the dam shall be prepared plus surfaces 8' below the upstream lake level. For informational purposes only, the estimated surface area is 3,500 square feet. After the concrete surface has been prepared, the entire surface shall be sounded using a hammer to determine if additional concrete removal is necessary.
- 2.1.8** **Concrete Removal** will be paid for by the square foot for all areas where it is necessary to remove concrete by hand methods. Hand methods include chiseling, air hammers or grinders. Cleaning and preparing exposed rebar will also be included in this bid item. Measurement will be based upon the area at the surface of the concrete.
- 2.1.9** **Concrete Saw Cutting** will be paid for by the lineal foot of concrete sawed. The cost shall include all materials and labor necessary to make a square edge for concrete repair patches or to deepen existing cracks. The depth of the cut shall be a minimum of 1".

- 2.1.10** **3" X 3" 10 Gage Galvanized Welded Wire Mesh** will be paid for by the square foot installed. Only flat sheets shall be used. The mesh shall be installed in all areas that will receive 2 ½" of shotcrete or as directed by the Engineer. The mesh shall be firmly anchored to the prepared concrete surface using drilled anchors or mechanically driven fasteners. The galvanized fasteners and corrosion resistant anchors shall be a minimum of 3/16" diameter. Fasteners shall be set a minimum of 2'ocbw. Mesh overlaps shall be a minimum of 1 ½ spaces. Minimum concrete coverage shall be 1 ½". The following table shows the locations to receive mesh. The locations will be adjusted in the field based upon the results of the concrete inspection.

CONCRETE REHABILITATION – AREAS TO RECEIVE WIRE MESH AND 2 ½" OF SHOTCRETE (SHOTCRETE FULL DEPTH)		
LOCATION	AREA	COMMENT
Lt. D/S wing	160	Full coverage
Lt. abutment	210	Full length bottom 6'
Lt. U/S wing	160	Full length down 8'
Rt. D/S wing	160	Full coverage
Rt. abutment	400	Revetment area and edge
Rt. U/S wing	160	Full length down 8'
U/S piers	150	Full coverage down 6'
D/S spillway face	400	Full coverage
Center pier	360	Bottom 6'

- 2.1.11** **Shotcrete Full Depth** will be paid for by the cubic yard placed. The contractor shall provide load/weight slips. Cost shall include all labor and material necessary to install the shotcrete. This bid item covers all shotcrete placed over the wire mesh at a thickness of approximately 2 ½". Refer to Section 033713 – SHOTCRETE and the detail in the plans titled "Shotcrete Full Depth Repair". During shop drawing review the contractor shall provide his mix design and photographs of gun finish.
- 2.1.12** **Raise Concrete Piers (3'±), Pier 1 and Pier 2** will be paid for each pier raised. The cost shall include all material and labor necessary to cut off and prepare the existing steel crane column and raise the concrete pier to the elevation shown on the plans. The pier extension shall be formed to the shape shown on the plans. The concrete shall be 4,000 psi 28-day mix.
- 2.1.13** **Concrete Surface Coating:** Will be paid for by the square foot installed. Upon completion of all concrete rehabilitation the top of the concrete abutment walls and wing walls shall be sealed with SikaTop 144. The concrete surface coating will be used to seal the top of the walls, including the area under the security fence. Care shall be taken to not coat the fence. Two coats shall be applied. The cost shall include all labor and materials necessary to clean any surface not previously prepared and to apply to two surface coatings.
- 2.1.14** **Conc. Surface Repair – Hand Placement/Formwork:** Will be paid for by the cubic foot completed. The cost shall include all labor, equipment and materials necessary to complete the surface repair. This bid item will only be used where it is not feasible to

make the concrete repair using shotcrete. The location must be first approved by the Engineer. The volume will be based upon the manufacturers stated volume per unit/bag; the project total will be the sum of all units/bags of material used. The Contractor must provide to the Engineer all of the empty bags in order to receive payment. The Contractor shall sound the all surfaces for delaminated concrete. Locations of delamination shall be marked with paint and will then be approved by the Engineer before proceeding. Repairs shall be made as specified by the manufacturer data sheets.

- Vertical surface repair: - material shall be SikaTop 123 Plus over SikaTop Armatec 110 Epocem.
- Vertical Surface Repairs over 3" deep: may be made with SikaTop 123 Plus over SikaTop Armatec 110 Epocem or 5,000 psi concrete placed over SikaTop Armatec 110 Epocem.
- Horizontal Surface: All areas of exposed reinforcement shall be covered with SikaTop Armatec 110 Epocem. The horizontal surface shall then be covered with a layer of SikaTop-111 Plus.

- 2.1.15** **Stainless Steel Vertical Lift Gate with Lifting Frame and Chain Hoist; Bay 1 and Bay 2:** Will be paid for each gate fabricated and installed. The cost shall include all material, equipment and labor necessary to complete the vertical lift gates as shown on the plans and in the specifications (see Section 11291). After the lake is lowered the Contractor shall verify all dimensions shown on the plans; check for alignment, plumb, level and square. Shop drawings and calculations shall then be prepared and submitted to the Owner and Engineer for approval prior to fabrication. After installation the Contractor shall adjust the seals for leakage and the gate for smooth operation. The gates shall then be ran through a cycle of operation for acceptance by the Owner and Engineer. The gates and frame shall be fabricated from stainless steel.
- 2.1.16** **Welder:** Will be paid for in half day increments. The cost shall include a certified welder and equipment necessary to make weld repairs where determined by the Engineer. This item is for work not included in other bid items that is discovered during construction (above water welding only). Steel supplies will be paid for by change order, material invoice plus 40%.
- 2.1.17** **Laborer:** Will be paid for by the hour. The cost shall include a laborer and all equipment necessary for metal and concrete cleaning and prep work to assist the welder in any needed repairs or for other work as ordered by the Engineer.
- 2.1.18** **Screened Topsoil** will be paid for by the cubic yard delivered and placed, including grading, raking, rolling and surface preparation. All topsoil shall be **screened** and clear of misc. debris. The topsoil shall be screened with a 1" minus screen. Enough topsoil shall be hauled to the site to provide approximately a 3" loose depth of topsoil on all disturbed areas to be seeded. The Contractor shall provide load slips including: date, driver, volume and pit location.
- 2.1.19** **Site Restoration (seed, fertilizer, e-mat)** will be paid for by the square yard as measured upon completion. The cost shall include all materials and work necessary to restore disturbed areas on the embankment. Refer to the general notes on sheet 1 for seed and fertilizer. Erosion mat shall be Class 1 Type B Urban, comply with Section

628 of the Standard Specifications for Highway and Structure Construction. The mat shall be placed on all areas to receive seed and topsoil. It is estimated that the disturbed area of the embankments will be approximately 300 square yards.

2.1.20 **Riprap w/HR Fabric** shall be heavy riprap in substantial compliance with Section 606 of the Standard Specifications for Highway and Structure Construction. Riprap will be paid for by the cubic yard truck measure. Load slips and a tally sheet must be submitted in order to receive payment. Cost shall include all material and labor necessary to place the riprap to a relatively smooth, uniform surface. Riprap will be placed along the upstream shore at the wing walls and at the downstream wing walls.

2.1.21 **Dam Warning Sign and Staff Gage:** One dam warning sign, a metal water level staff gage, and one vinyl strip gage on each gate rail shall be provided and installed. The water level staff gage shall be a minimum of 4" wide metal, white background with black markings, calibrated in feet, tenths and hundredths, and anchored to the abutment with stainless steel fasteners. The staff gage shall be placed at the location of the existing staff gage and match the settings of the existing staff gage. The vinyl strip gages shall be an adhesive backed vinyl strip with a white background and black markings calibrated in tenths and feet, mounted inside of the lifting rail channel. The dam warning sign shall be bolted to the top of the lift frame and be:

- a minimum of 2'x2'
- have the word "DAM" placed in the center of the sign
- be visible from 300' away
- manufactured on durable rust-proof .080" aluminum
- Pre-punched 3/8" mounting holes in top and bottom for easy installation.
- Meets M.U.T.C.D. specifications for highway use
- Have a reflective layer with a white background, orange border, and black letters

2.1.22 **Mobilization Dam Emergencies:** Will be paid for each emergency mobilization completed. The cost shall include moving personnel, equipment, and materials to the project site to respond to construction related dam emergencies as the Owner/Engineer directs. Mobilize with sufficient personnel, equipment, materials, and incidentals to be on the job site within 3 hours of the Engineer's written order to address issues on an emergency basis. An emergency is a sudden occurrence of a serious and urgent nature. Under this definition, an emergency mobilization requires immediate action to move necessary personnel, equipment, and materials to the emergency site to follow designated instructions from Owner/Engineer.

2.1.23 **Traffic Control** and Site Security is the Contractor's responsibility. There is a one lane Town Road Bridge that goes over the dam and is a part of the dam. The Town of Draper will allow the contractor to close the road during construction and to use the boat landing as a staging area. The contractor shall install road closed signs at the intersection of STH 70 and Dam Road, and at the intersection Knowles Road and Dam Road. No heavy equipment shall be operated off of the bridge or roadway. Signs shall be in place prior to any construction activity; the site shall be kept secure, neat and clean with all debris removed daily and deposited in the contractor's dumpster. Refer to Plan Sheet 11.

- 2.1.24** **12" x 10' Sediment Log** will be paid for each log installed and maintained. The sediment logs will be used to provide erosion control of the lake bed sediments while the lake is dewatered. The sediment logs shall be placed on a level contour line on the bottom of the dewatered lake bed. In areas of uneven lake bed and through the main channel, sand bags shall be placed as needed to keep the top of the sediment log level. The logs shall be continuous and uninterrupted and will act as a sediment log confinement weir. The logs shall be placed as directed by the Engineer.
- 2.1.25** **Sand bags** will be paid for each sand bag installed and maintained that is part of the sediment log erosion control device. The sand bags shall be a nominal 50 pounds each. Refer to item 2.1.24.
- 2.1.26** **Silt Fence** shall be installed at the intercept between the slope and rip rap, base of slopes, toe of any stockpiles, and where needed to control erosion. Silt fence will be paid for by the lineal foot installed and maintained. Comply with Section 628 of the Standard Specifications for Highway and Structure Construction.
- 2.1.27** **Alternate 1: Shotcrete Surface Coat Repair** Cost shall include all labor and material necessary to install the shotcrete. The contractor shall provide load/weight slips. This bid item covers all shotcrete placed directly over the prepared concrete surface at a thickness of approximately 1". Refer to Section 033713 – SHOTCRETE and the detail in the plans titled "Shotcrete Surface Coat Repair". If selected this bid item will be used to cover all surfaces of the dam not previously covered under "Shotcrete Full Depth Repair". The Shotcrete Surface Coat Repair will be used to provide a uniform appearance of the entire dam. If the project is awarded it will be awarded based upon the bid most advantageous to the County, consisting of the total base bid and may or may not include this alternate and or any combination of the other alternates.
- 2.1.28** **Alternate 2: Stainless Steel Vertical Lift Gate With Lifting Frame and Chain Hoist; Bay 4** The cost shall include all material, equipment and labor necessary to complete the vertical lift gate as shown on the plans and in the specifications (see Section 11291). This gate will be installed in bay 4. After the lake is lowered the Contractor shall verify all dimensions shown on the plans; check for alignment, plumb, level and square. Shop drawings and calculations shall then be prepared and submitted to the Owner and Engineer for approval prior to fabrication. After installation the Contractor shall demonstrate the gate through a cycle of operation before acceptance by the Owner. The gate and frame shall be fabricated from stainless steel. If the project is awarded it will be awarded based upon the bid most advantageous to the County, consisting of the total base bid and may or may not include this alternate and or any combination of the other alternates.
- 2.1.29** **Alternate 3: Raise Concrete Pier (3'±); Pier 3** will be paid for raising pier #3. The cost shall include all material and labor necessary to cut off and prepare the existing steel crane column and raise the concrete pier to the elevation shown on the plans. The pier extension shall be formed to the shape shown on the plans. The concrete shall be 4,000 psi 28-day mix. If the project is awarded it will be awarded based upon the bid

most advantageous to the County, consisting of the total base bid and may or may not include this alternate and or any combination of the other alternates.

- 2.1.30 **Alternate 4: Deduct for Replacing Stainless-Steel Gates with Painted Steel Gates**
The Owner is requesting that an alternate price deduct be offered for each stainless-steel gate that is changed to standard structural steel. The steel shall be primed and painted with two coats of coal tar epoxy. If the project is awarded it will be awarded based upon the bid most advantageous to the County, consisting of the total base bid and may or may not include this alternate and or any combination of the other alternates.

PART THREE

3.1 GENERAL

- 3.1.1 **Final Cleanup:** It is the General Contractor's responsibility to completely clean up the entire project area and the total construction site at the completion of the project.
- 3.1.2 **Warranty:** The total installation shall have a full warranty for one (1) year following substantial completion; including furnished equipment.
- 3.1.3 **Payment to Contractor:** The Owner will make progress payments to the Contractor in accordance with the General Conditions. The contractor shall submit pay requests to the Engineer 10 days prior to the regular scheduled meeting of the Sawyer County Zoning and Conservation Committee.
- 3.1.4 **Final Payment:** Final payment to the Contractor will not be made until contractor has submitted the close out documents listed on pages 35, 36, and 37 of this Contract and the Owner and Engineer have certified that the project is in substantial compliance with the Plans, Specifications and Construction Contract.



This is the left downstream wing wall. There are spalls and delaminated concrete. This wing will be prepared and then covered full height with mesh and 2 ½" of shotcrete, see detail "Shotcrete Full Depth Repair"

2020-109

01010-11



This is the top of the left downstream wing wall that has numerous cracks. The concrete on the wall shall be prepared and all of the cracks hydro blasted to remove all loose material to allow maximum penetration of shotcrete.



This photo shows bays 1 and 2. The concrete is spalled, delaminated, exposed re-rod and there is loss of fine aggregate. The surfaces shown will receive "Shotcrete Full Depth Repair". Both stop log bays will be replaced by stainless steel vertical lift gates.



This is bay 4 and if selected, installation of a stainless-steel vertical lift gate would be completed under bid item Alternate 2. The bench mark shall not be disturbed. There are cracks in the revetment wall that leak and shall be sealed using urethane grout. The revetment wall shall then be covered with mesh and “Shotcrete Full Depth Repair”. The mesh shall cover the top of the revetment wall and extend to the face of the original abutment. If Alternate 1 is selected, the concrete surface area above the revetment wall will be covered with 1” of shotcrete under “Shotcrete-Surface Repair”.



This photo shows the revetment wall along the face of the right upstream wing wall. Existing control and construction joints shall be extended to the surface of the shotcrete repair using a strip type bond breaker. The revetment wall shall be covered with mesh and “Shotcrete Full Depth Repair”. The mesh shall cover the top of the revetment wall and extend to the face of the original abutment. The shotcrete will extend about 4’ below the water surface to the lower limits of concrete deterioration.



This is right abutment and downstream wingwall. The apron area shall be sandbagged and dewatered during preparation of the concrete surface and during shotcreting. The concrete apron is about 2' below the tailwater elevation. Refer to Sheet 1 of the plans for construction sequence and dewatering. The revetment wall will receive "Shotcrete Full Depth Repair". The mesh shall cover the top of the revetment wall and extend to the face of the original abutment. If Alternate 1 is selected, the concrete surface area above the revetment wall will be covered with 1" of shotcrete under "Shotcrete-Surface Repair". All wall and apron drains shall be extended to the surface before the shotcrete is placed. The existing construction and control joints shall be brought to the surface of the shotcrete. The top of all walls are not intended to receive shotcrete but to be finished with two coats of Sikatop 144.

-END OF SECTION-

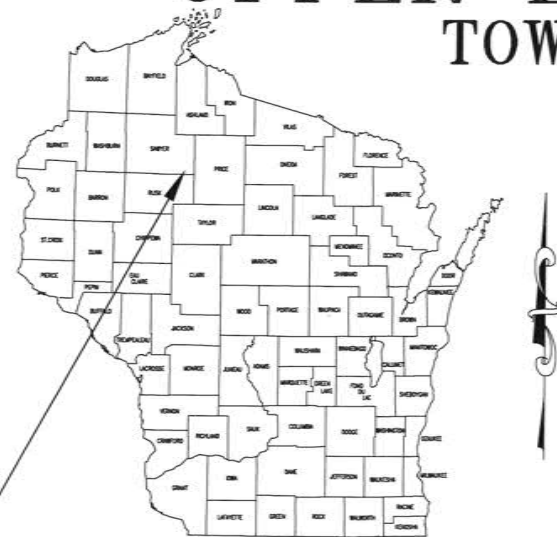
UPPER BRUNET DAM REHABILITATION

FIELD FILE NO. 57.32
DAM SEQUENCE #198

TOWN OF DRAPER, SAWYER COUNTY

M & P PROJECT No.: 2020-109

DECEMBER 2020

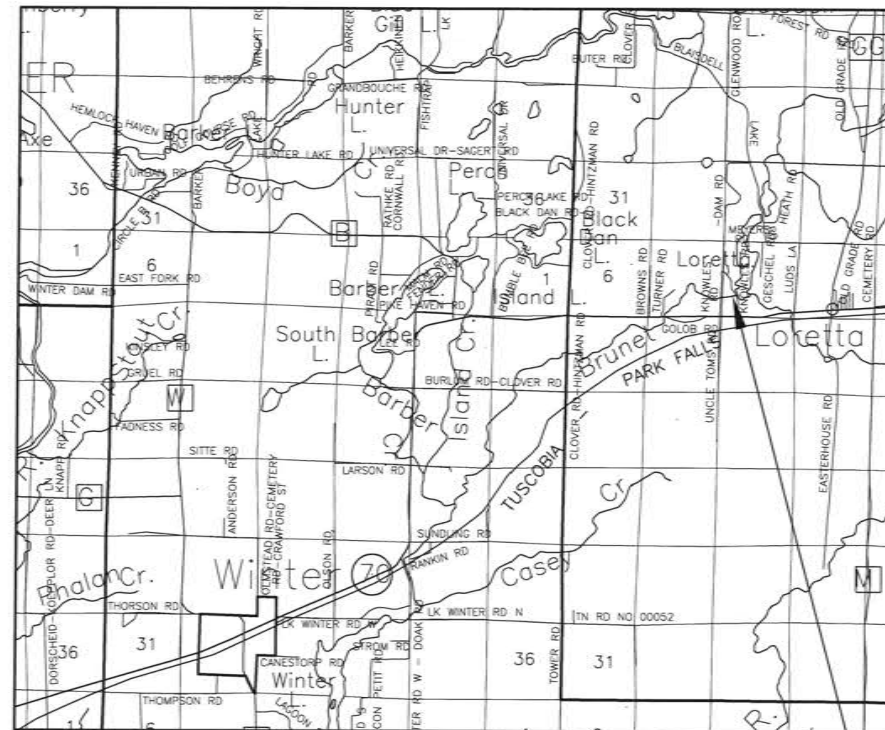


GENERAL LOCATION MAP

GENERAL NOTES

1. ALL CONSTRUCTION EQUIPMENT SHALL BE CLEANED PRIOR TO ENTERING SITE TO PREVENT SPREAD OF INVASIVE SPECIES
2. EROSION CONTROL MEASURES SHALL BE IN PLACE BEFORE CONSTRUCTION BEGINS.
3. THE CONTRACTOR SHALL MINIMIZE EROSION DURING CONSTRUCTION USING GOOD CONSTRUCTION TECHNIQUES. RUNOFF SHALL BE RELEASED FROM THE SITE IN A NUISANCE FREE MANNER.
4. ALL EROSION CONTROL DEVICES SHALL BE MAINTAINED TO PROVIDE THE LEVEL OF INTENDED SERVICE.
5. ALL STOCKPILED FILL MATERIAL SHALL BE PROTECTED WITH A SILT FENCE ENCIRCLING THE PILE AT THE TOE OF THE SLOPE. THE SURFACE SHALL BE TEMPORARILY SEEDED IF STOCKPILE REMAINS FOR 7+ DAYS.
6. THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL DEVICES WEEKLY AND WITHIN 24 HOURS OF ½" RAINFALL EVENT. THESE INSPECTIONS SHALL BE DOCUMENTED BY A WRITTEN LOG NOTING: DATE, TIME, ITEMS INSPECTED AND ITEMS MAINTAINED.
7. DEWATERING WILL BE PERMITTED BY PUMPS PLACED IN OPEN EXCAVATIONS. DISCHARGES MUST BE IN COMPLIANCE WITH THE PERMIT. SURFACE WATER DISCHARGES FROM EXCAVATIONS ARE NOT ALLOWED.
8. ALL DISTURBED AREAS SEEDED AS FOLLOWS:

500# / ACRE FERTILIZER (20-0 -10)	
SEEDING: HARD FESCUE	20%
RED FESCUE	20%
KENTUCKY BLUEGRASS	35%
FINE PERENNIAL RYE GRASS	25%
SEED RATE 4# / 1000 SQ. FT.	
COMPANION CROP: 1-½ BU. OATS / ACRE	
EROSION MAT CLASS 1 TYPE B URBAN	
9. ALL EROSION CONTROL PRACTICES SHALL BE CONSTRUCTED IN COMPLIANCE WITH THE BMP STANDARDS OF THE TECHNICAL STANDARDS CONSTRUCTION SITE EROSION & SEDIMENT CONTROL.
10. NO CONSTRUCTION EQUIPMENT SHALL OPERATE ON THE DAM OR WITHIN THE SOIL SURCHARGE AREAS OF THE ABUTMENTS OR WING WALLS



PROJECT LOCATION MAP

DO NOT SCALE

PROJECT SITE: BRUNET DAM

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www.DiggersHotline.com

MORGAN & PARMLEY, LTD.

CONSULTING ENGINEERS

115 W. 2nd STREET SOUTH

LADYSMITH, WISCONSIN 54848

(715) 532-3721

mpltd@centurytel.net

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET w/GENERAL LOCATION & NOTES
2	SITE PLAN
3	BAY 1 AND BAY 2 ELEVATION VIEW, BASE BID
4	BAY 3 AND BAY 4 ELEVATION VIEW, ALTERNATE 2 & 3
5	SECTION VIEW OF GATES
6	TYPICAL CROSS SECTION OF GATE
7	ROLLER ASSEMBLY
8	SHOTCRETE DETAILS
9	DAM PHOTOS
10	EROSION CONTROL AND BEST MANAGEMENT PRACTICES
11	BARRICADES AND SIGNS FOR SIDE ROAD CLOSURE SDD15C03-05
12	SAND BAG DETAIL

Plan of Construction:

The following sequence of construction activities may be used by the contractor:

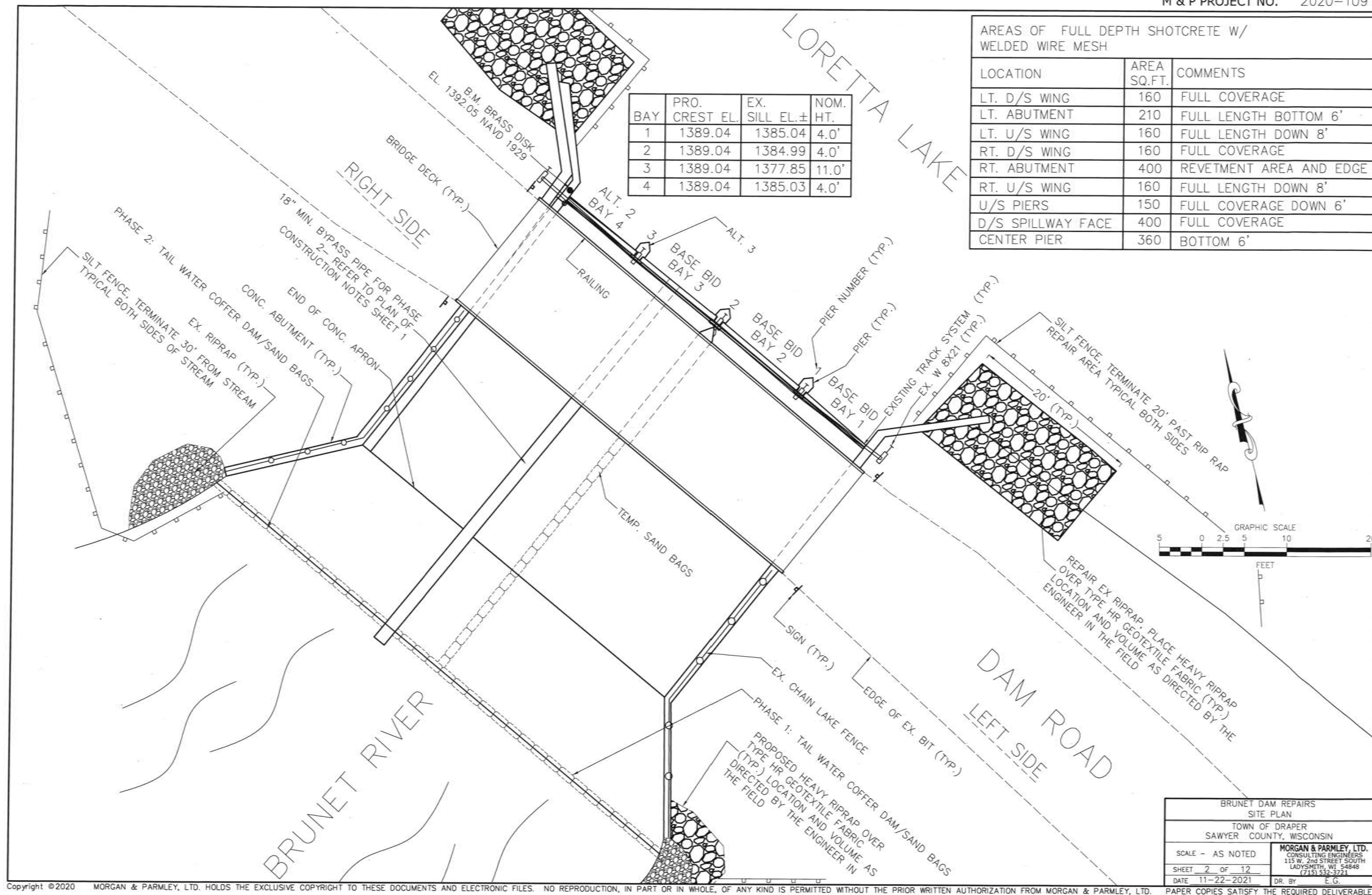
- Prepare and submit Plan of Construction.
- The DNR requires approval of all coffer dams. The DNR may require that plans be submitted to them for approval of the tailwater coffer dam/sand bags. If so the elevation of the concrete tailwater apron is 1378± and the normal tailwater elevation is less than 1380 i.e., less than 2' of depth. The stream bottom drops down at the end of the concrete apron. The coffer dam can consist of sand bags or similar devices.
- Prepare and implement the erosion control plan.
- Prepare and implement a lake dewatering plan. The stop logs shall be removed from the full height stop log bay to dewater the lake. The rate of dewatering shall be a maximum of 0.5' per day. Normal pool is 1389± and the bottom of the stop log channel is 1378±. The project requires that all of the stop logs be removed and cleaned and the stop log channel inspected.
- 25% of base flow must pass downstream throughout construction.
- Prior to lake drawdown any active leaks shall be marked and predrilled for grouting.
- Concrete rehabilitation will be broken into 3 Phases to simplify dewatering
- Phase 1 Concrete Rehabilitation - left half: Begins when the lake level drops to elevation 1385 (bottom of stop log bay). Water is passed through bay 3, bays 1 and 2 are now dry. Install a coffer dam/sand bags from the downstream end of the full height pier past the tips of the wing walls plus across the left half of the channel. Dewater the area between the sand bags and the dam. The concrete on the left half of the dam can now be rehabilitated.
- During Phase 1 verify all plan dimensions for gate construction and complete shop drawings for the two vertical lift gates. Note: The third gate may be completed if Alternate 2 is accepted.
- Phase 2 Concrete Rehabilitation - right half: Begins when Phase 1 is completed and the lake level is at the invert of the full height stop log channel. Inspect and make any needed repairs to the steel stop log channel. Install temporary stop logs into bay 3 and cut an 18" bypass pipe into the face of the stop logs at the bottom of the first log. Extend the 18" by-pass pipe past the downstream wings. Remove the sand bags from across the left half of the dam and install them on the right half of the dam. Dewater the area between the sand bags and the right half of the dam. The by-pass pipe will keep the area dry. The concrete on the right half can now be rehabilitated.
- Phase 3 Concrete Rehabilitation - upstream concrete: Begin Phase 3 after Phase 2 is complete. Remove the downstream sand bags and by-pass pipe. Clean and re-install the stop logs in bay 3, one at a time while allowing 25% base flow to pass downstream. Complete the upstream concrete restoration.
- Install and test the two new vertical lift gates (three if the Alternate 2 is accepted).
- Install the riprap
- Site restoration

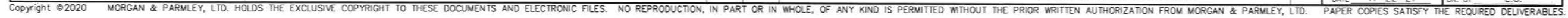
REVISED 11-22-2021

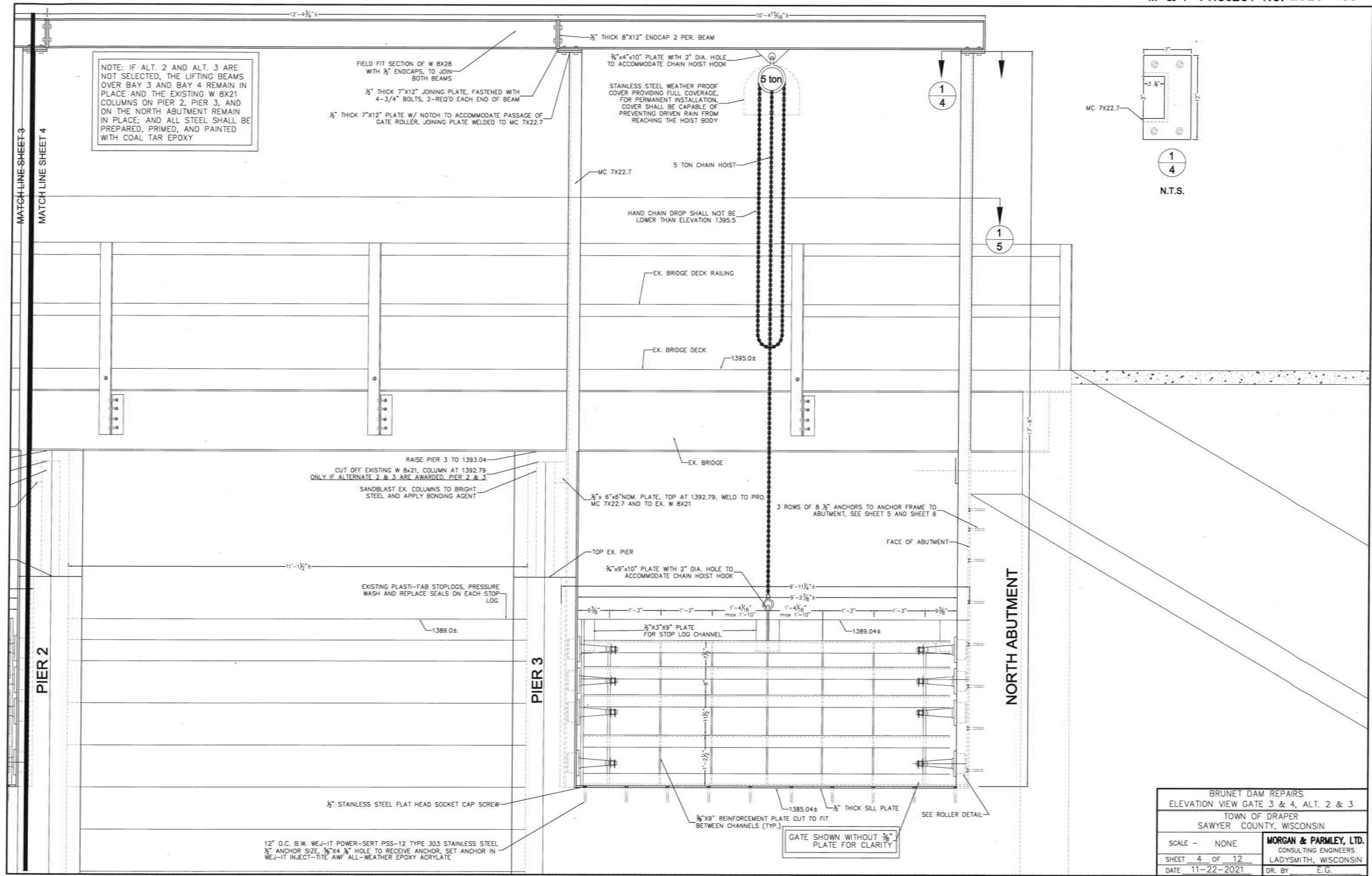
SHEET: 1 OF 12

AREAS OF FULL DEPTH SHOTCRETE W/ WELDED WIRE MESH		
LOCATION	AREA SQ.FT.	COMMENTS
LT. D/S WING	160	FULL COVERAGE
LT. ABUTMENT	210	FULL LENGTH BOTTOM 6'
LT. U/S WING	160	FULL LENGTH DOWN 8'
RT. D/S WING	160	FULL COVERAGE
RT. ABUTMENT	400	REVTMENT AREA AND EDGE
RT. U/S WING	160	FULL LENGTH DOWN 8'
U/S PIERS	150	FULL COVERAGE DOWN 6'
D/S SPILLWAY FACE	400	FULL COVERAGE
CENTER PIER	360	BOTTOM 6'

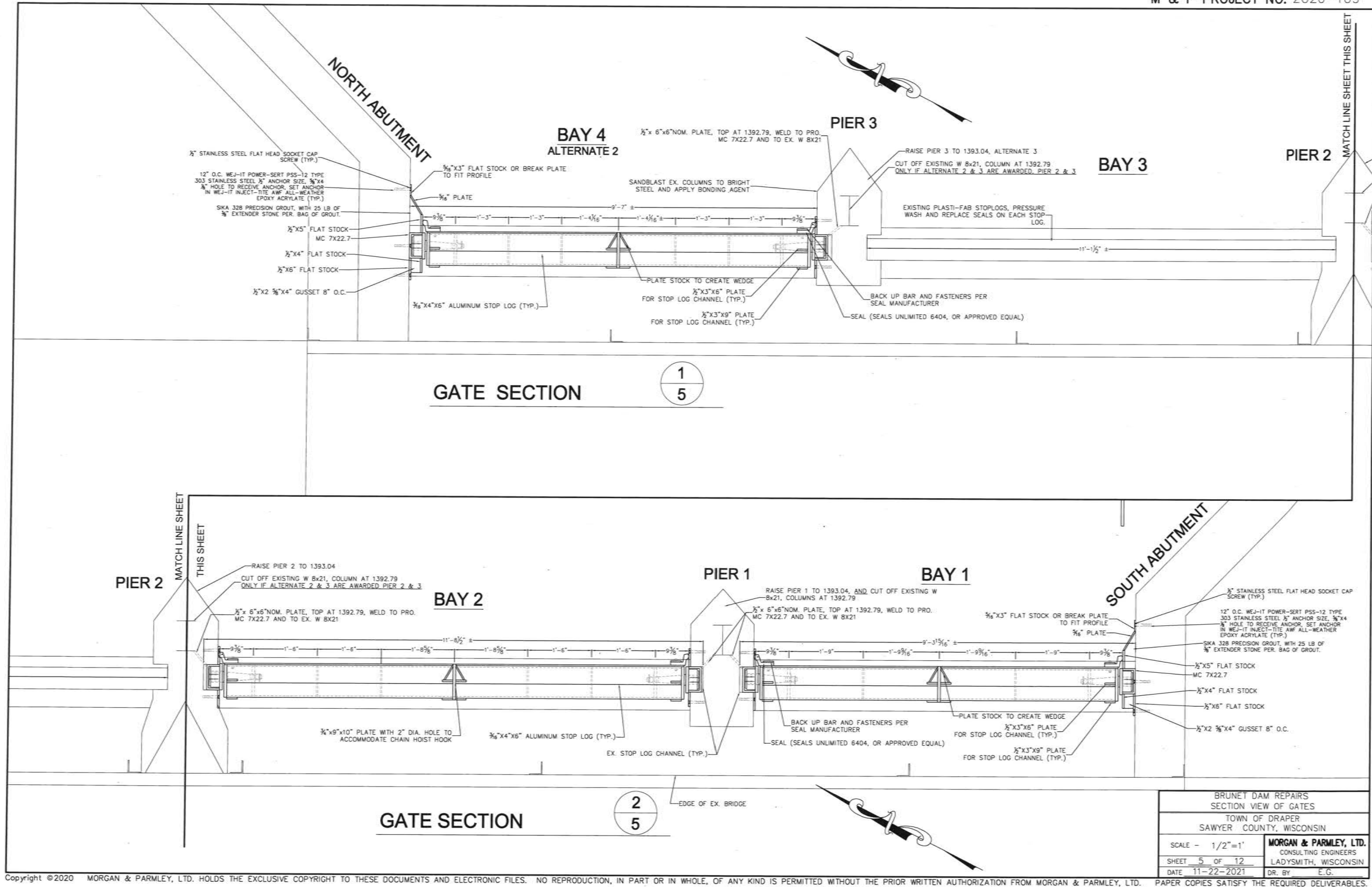
BAY	PRO. CREST EL.	EX. SILL EL.±	NOM. HT.
1	1389.04	1385.04	4.0'
2	1389.04	1384.99	4.0'
3	1389.04	1377.85	11.0'
4	1389.04	1385.03	4.0'

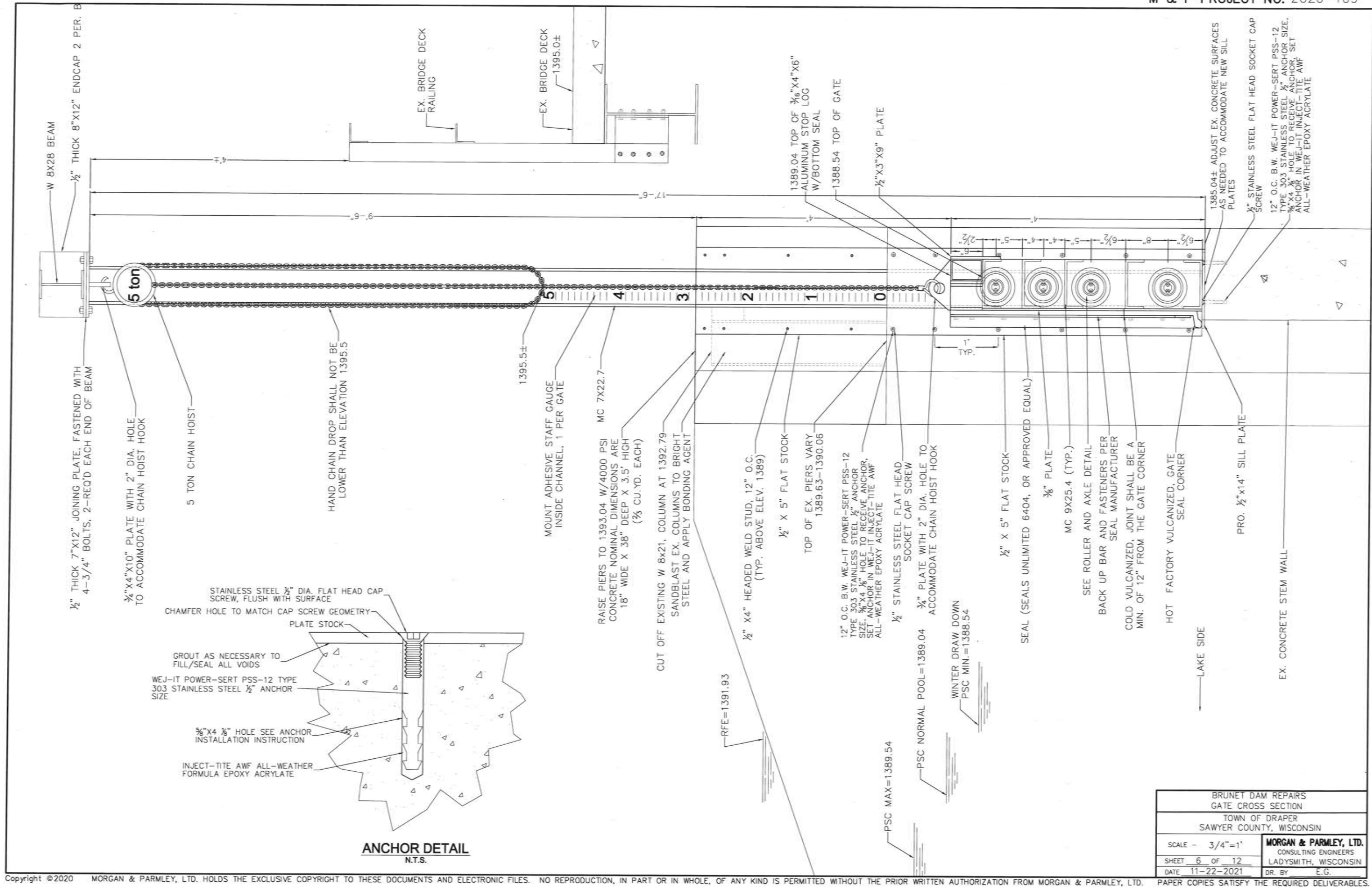


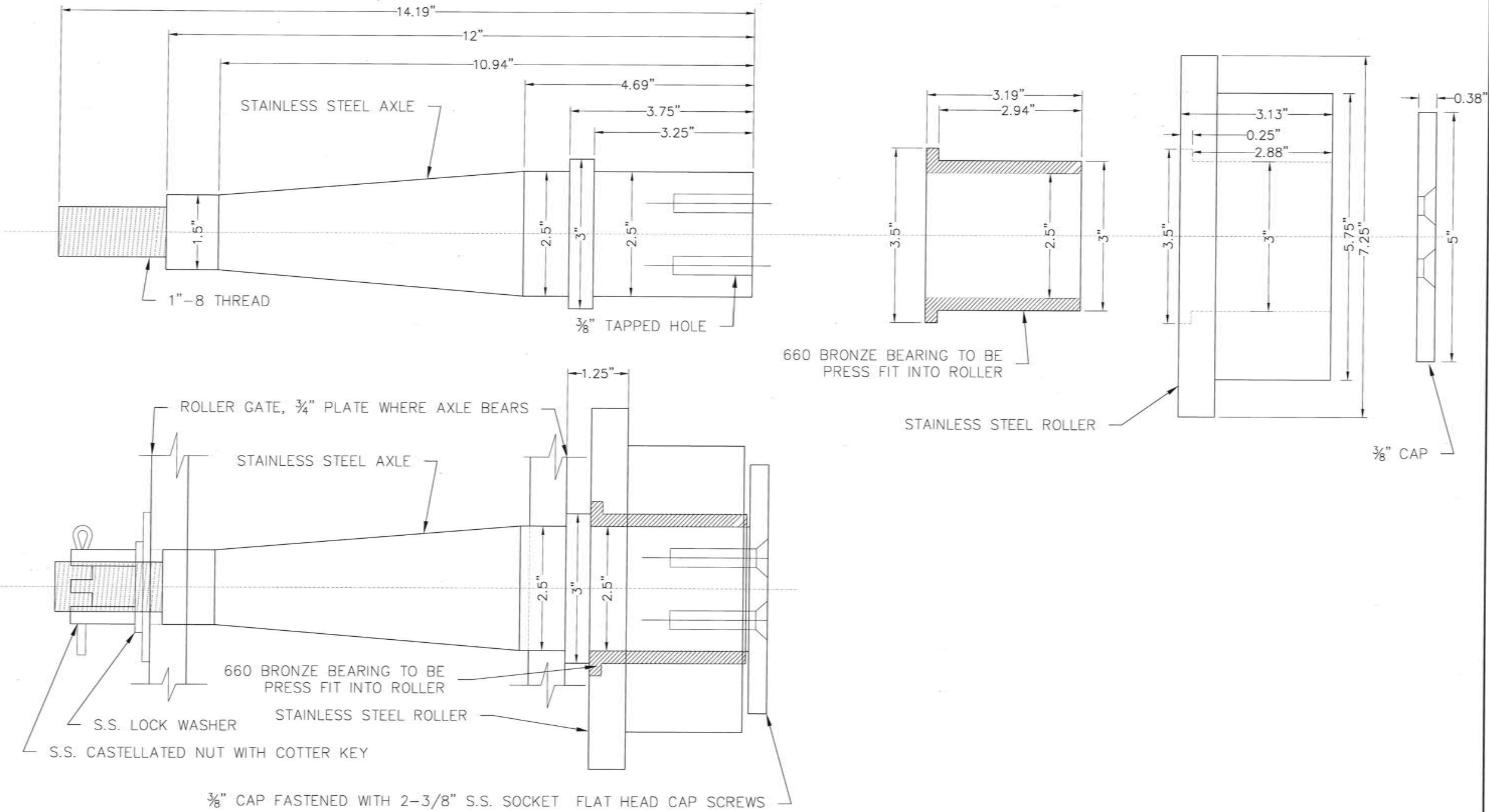




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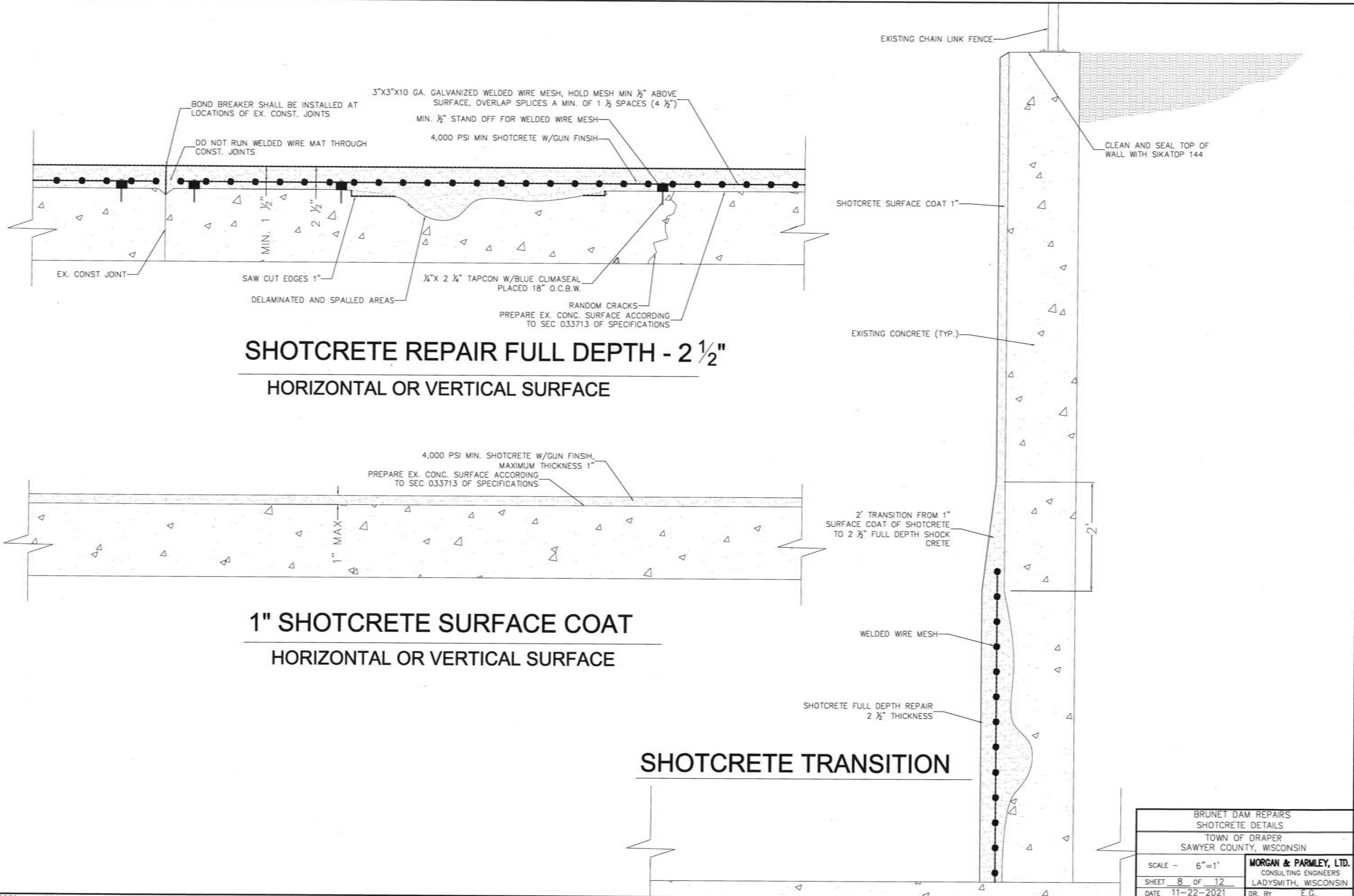






ROLLER ASSEMBLY 8 REQUIRED PER GATE

BRUNET DAM REPAIRS ROLLER ASSEMBLY	
TOWN OF DRAPER SAWYER COUNTY, WISCONSIN	
SCALE - 6"=1'	MORGAN & PARMLEY, LTD. CONSULTING ENGINEERS LADYSMITH, WISCONSIN DR. BY E.G.
SHEET 7 OF 12	
DATE 11-22-2021	



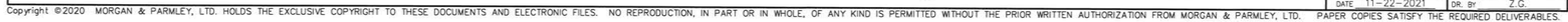


PROPOSED PIERS
N.T.S.

EXISTING LIFTING RAIL
N.T.S.

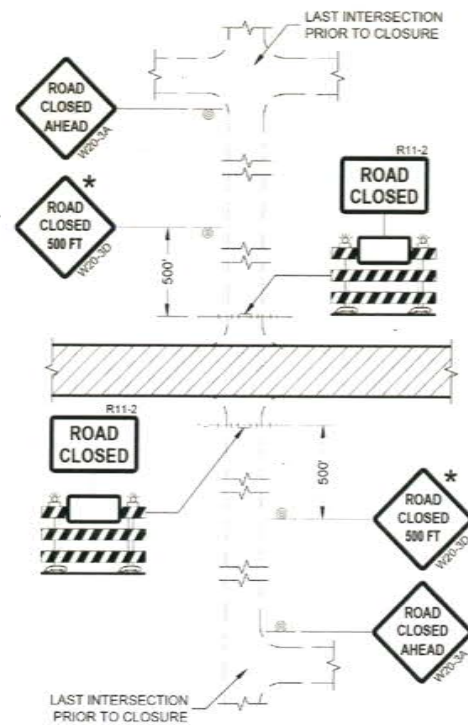
REFER TO SECTION 1010 PAGES 10-13
FOR MORE PHOTOS

BRUNET DAM REPAIRS PHOTOS	
TOWN OF DRAPER SAWYER COUNTY, WISCONSIN	
SCALE - AS NOTED	MORGAN & PARMLEY, LTD. CONSULTING ENGINEERS 115 W. 2nd STREET SOUTH LADYSMITH, WI 54848 (715) 532-3721
SHEET 9 OF 12	DR. BY E.G.
DATE 11-22-2021	

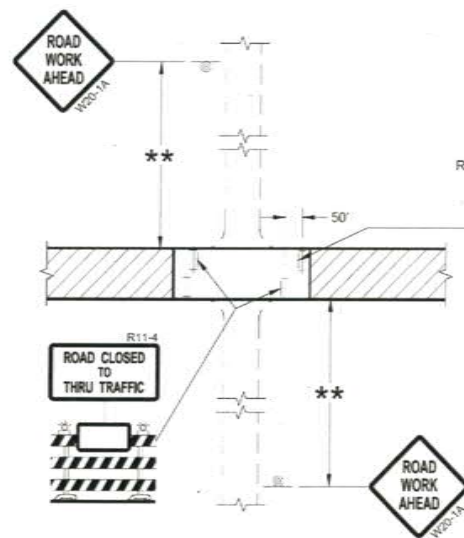




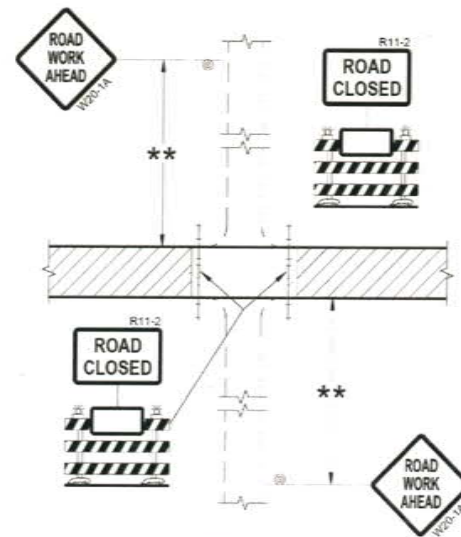
SDD 15C03 Barricades and Signs for Sideroad Closures



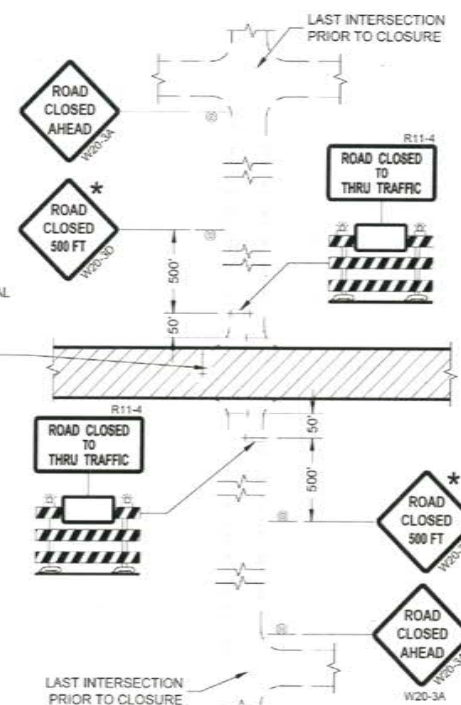
DETAIL 1
(NO ACCESS TO PROJECT)



DETAIL 3
(PUBLIC CROSS-TRAFFIC MAINTAINED,
CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)



DETAIL 2
(PUBLIC CROSS-TRAFFIC MAINTAINED,
NO ACCESS TO PROJECT)



DETAIL 4
(CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE (500 FEET DESIRABLE) TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS REESTABLISHED.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3, AND R11-4 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
R11-2 SHALL BE 48" X 30".
R11-4 AND R11-3 SHALL BE 60" X 30".

* OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FEET OR LESS FROM THE WORK ZONE.

** 500' MAX. OR AT LAST INTERSECTION, WHICHEVER IS CLOSEST.

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- ⚡ TYPE "A" WARNING LIGHT (FLASHING)
- ▨ WORK AREA

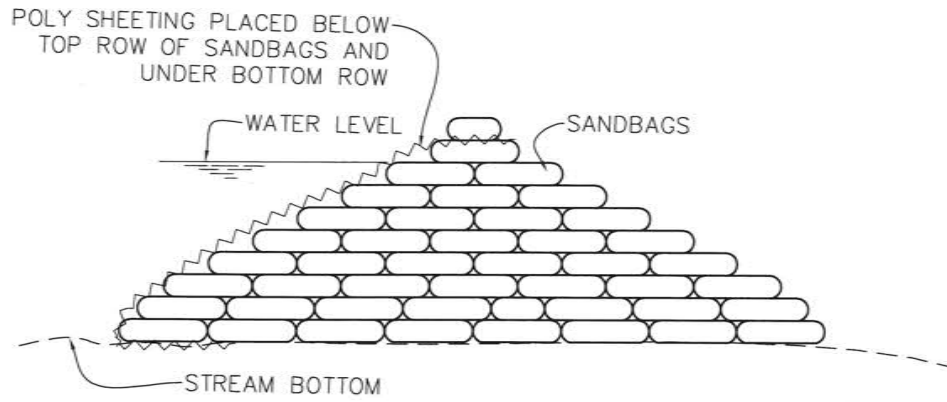
BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER

SDD 15C03 - 05

SDD 15C03 - 05



TYPICAL SANDBAG DETAIL

NOTE: SANDBAG COFFER DAM, BASE WIDTH IS TWO TIMES THE HEIGHT

NOT-TO-SCALE

BRUNET DAM REPAIRS	
SAND BAG DETAIL	
TOWN OF DRAPER	
SAWYER COUNTY, WISCONSIN	
SCALE - AS NOTED	MORGAN & PARMLEY, LTD.
SHEET 12 OF 12	CONSULTING ENGINEERS
DATE 11-22-2021	115 W. 2nd STREET SOUTH
	LADYSMITH, WI 54848
	(715) 532-3721
	DR. BY E.G.

DRAFT

DATE: November 29, 2021

TO: Jacob Druffner

FROM: Larry Gotham, P.E., Morgan & Parmley

SUBJECT: Upper Brunet 2021 Reconstruction Plan Review Comments Dated February 23, 2021

Reference: Upper Brunet Dam, Repair and Modification, FF 57.32, Sequence No. 198
Morgan & Parmley No. 2020-109

Following is my response to your review comments dated February 23, 2021.

1. Fisheries Concerns: The County will request a permit to draw down the lake below minimum ordered water level of 1388.54. We will work with the DNR to obtain an agreed upon water level. At that point in time the request will be made. A drawdown rate of 6"/24 hours is now shown as a bullet point under the Plan Of Construction and included in Section 01010 of the specifications. Prior to plan preparation the upstream surface of the concrete dam was inspected by divers. The dive inspection noted concrete deterioration down to a depth of 8' below the water surface, elevation of <1381. The intent of the project is to include the upstream concrete repair as part of this project. The cost of the sheet pile coffer dam plus dewatering for the Tiger Cat Flowage project was \$83,000 from Janke General Contractors and \$415,000 from IEI General Contractors. At the time of the Municipal Dam Grant Application the County chose not to budget for an upstream coffer dam. Only the cost for lake drawdown and a downstream/tailwater coffer dam was included in the budget. The loss of fish was discussed by the County during the design phase; the County would like to work with the DNR on restocking fish in lieu of installing an upstream coffer dam.

2. Wildlife/Ecology Concerns: If the DNR approves a complete drawdown, a final lakebed erosion control plan will be prepared and included on sheet 12 in the plans. Details will be worked out and agreed upon with the DNR. However, at this point in time, we are proposing the installation of an uninterrupted chain of 12" diameter sediment logs. The upstream logs would be placed level along a contour line. Sand bags would be placed on the stream bottom if needed to fill in lake bed depressions such as the stream channel. The sediment logs would create a sediment pool 1' deep at the log and transitioning down to 0' at the upstream edge. The sediment log contour would be determined when the lake bottom becomes visible. At this point in time, I am estimating 400' of sediment log which would contain an estimated 500+ cubic yards of sediment. The details will be worked out with the DNR upon approval of a lake drawdown.

3. Plans and Specs:

- a. The basis of elevations is the brass cap bench mark, BM 880 A, elevation 1392.05 NGVD 29 located on the right upstream abutment wall (also reported a 102.01 local datum). This information was taken from DNR records.

- b. There were no Q7 10 records found on the DNR web pages for this section of stream; there have been times when I have seen no water going over the dam. We anticipate that the department will approve a complete draw down which will allow an estimation of base flow since there will be no upstream storage. Base flow can be estimated prior to changes in storage and a minimum of 25% of said base flow will then pass downstream. Flow rate can be calculated over the concrete apron or through the drawdown pipe.
- c. Our typical sandbag detail is included on plan sheet 7. The second bullet on the Plan of Construction notes that the apron elevation is 1378 and normal tailwater elevation is less than 1380; normal tailwater depth is less than 2' deep. The top of the sand bags would be 3' high, provide 1' of freeboard for a 2' tailwater elevation. The downstream sand bags are being installed to accommodate construction only. The contractor will dewater the area behind the sand bags as needed for construction. The sand bags will be placed on a concrete apron. Overtopping the sand bags only effects construction and not the downstream public.
- d. You are correct. The original dam grant application intended to replace the full height stop log bay with a full height vertical lift gate. We met with the County on November 3, 2020. During that meeting changes were proposed to better facilitate operation of the dam and to increase the safety of both the operators and public. These changes were accepted by the department; please refer to your email on 12-16-20. Now to specifically answer your question regarding the gates/stop log bays. The total base bid is to: remove and clean the polymer stop logs in the full height bay, Bay 3, and reinstall; remove the stop logs in Bay 1 and Bay 2 and replace with new stainless steel vertical lift gates. The project will be awarded to the responsible contractor with the lowest TOTAL BASE BID. Then, depending upon: available budget, price of the Alternates and the County's decisions, the County may or may not elect to complete alternate bid items. If selected, the Alternate Bid Items will be added to the Contract by Change Order. A flow chart cannot be made since it is contingent upon County decisions yet to be made. Note: If Alternate 2 is selected Alternate 3 must also be included.
- e. A sign detail, WI DOT SDD 15C03-05 has been added as plan sheet 11, Section 01010 revised, and a bid item added for traffic control.
- f. Bay 3 will reuse the existing polymer stop logs (they will be removed, cleaned and reinstalled) which will only be used as a lake drain. The County has a service truck with a boom that can be used to remove the stop logs when the need arises. The need is only anticipated to occur when repairs are made on the upstream face of the dam; estimated once every 20 years.
- g. This has been corrected to cubic yard.
- h. A gun finish is not a smooth troweled finish as we would visualize on formed concrete or finished flat work. A troweled finish can be requested but the cost is higher and there is a risk of debonding during the finish troweling process. The uniformity and appearance of the gun finish is 100% dependent upon the operator. That is why we request a resume' of the operator and photographs. On the following page is a photograph of a recent project. Please note that the surface is not smooth like formed concrete and the edges are rounded and do not have a crisp edge as from a formed chamfer strip. Nonetheless, the concrete surface has been repaired at a cost much less than hand troweled or using repair forms.
- i. The existing steel columns will be cut off at elevation 1392.79, sandblasted to a bright steel finish and prepared with a concrete bonding agent and fully encased in concrete. This note is shown on the plans.
- j. The scale on plan sheet 6 has been increased to improve clarity and a photograph of the gate design attached.

November 22, 2021

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- k. Location of silt fence has been added to plan sheet 2. The full extent of the upstream rip rap repair will be determined in the field after the lake is drawn down.



CORRESPONDENCE/MEMORANDUM

State of Wisconsin

DATE: February 23, 2021

FF# 57.32

TO: Larry Gotham, P.E., Morgan & Parmley

FROM: Jacob Druffner

SUBJECT: Upper Brunet 2021 Reconstruction Plan Review Comments

1. **Fisheries Concerns:** The dam has an ordered minimum water level of 98.5-ft (1388.54 NGVD 29). A permit will need to be submitted to drawdown below this level. We have concerns regarding the proposed 11-ft drawdown of the impoundment as the Department bathymetric maps indicate a maximum depth of 12-ft for Lake Loretta. This could have very adverse impacts on the fishery for this body of water. Contours for the lake suggest that any drawdown greater than a few feet could lead to disconnectivity between portions of the lake leading to fish stranding, temperature stress, and easy targets for predatory birds. If a significant drawdown were to occur, restocking may need to occur. Additionally, a drawdown rate of no greater than 6-in/24-hrs is requested.
2. **Wildlife/Ecology Concerns:** How much sediment has accumulated upstream of the dam? With a drawdown of this magnitude, there are concerns about sedimentation to the downstream resource. What sediment management practices / dewatering methods will be used to limit sedimentation downstream? A plan should be included detailing how sediment monitoring/erosion control shall change if a storm event occurs and the impoundment is drawn down exposing vulnerable / highly mobile lakebed sediment. Final erosion control plans should be submitted for approval.
3. **Plans and Specs**
 - a. Which local benchmark was used / tied into? What is the survey datum?
 - b. What discharge is considered the minimum flow to be maintained? Are their calculations you can provide?
 - c. Please provide a detail for downstream cofferdam/sandbag design. Include height and width of bags. How much freeboard will be provided for possible storm events during construction? Will the bags be stable under higher adjacent velocities when all discharge moving through Bay 3 (Phase 1)?
 - d. Original plan in grant application submittal was to just replace full length stop log channel with vertical lift gate. Unclear about Alternate 1 and 2. Please clarify each alternate (2.1.23 – 2.1.26) and what is proposed to be completed. For example, maybe a flow chart would be helpful for explanation.
 - e. Provide a sign detail for traffic control/road closures.
 - f. The plans do not demonstrate a new lift device for the new Bay 3 slide gate. Is this accurate?
 - g. Noticed that topsoil will be delivered with weight ticket but paid per CY. Could this be disadvantageous?
 - h. Shotcrete – Please explain the “gun finish” in the specs and how contractor is to attain the smooth finish?
 - i. Pier Raising – When raising concrete pillars, could you add additional language regarding steel I-beams used as reinforcing steel if that is the implication?



- j. Please clarify the configuration of the steel slide gates and the layout of the 3/8" steel plate covering the roller devices.
- k. Details were provided for erosion control and rip-rap placement but were not included in the plans. Please specify in the plans where each detail is to be applied.



PROPOSAL -BRUNET DAM REHABILITATION -					
M & P Project No.: 2020-109					
BID ITEM	DESCRIPTION	UNITS	UNIT PRICE	QNTY	TOTAL
1	Mobilization	L.S.	\$ -	1	\$ -
2	Lake Drawdown	L.S.	\$ -	1	\$ -
3	Downstream Sandbagging/Coffer Dam/Dewatering	L.S.	\$ -	1	\$ -
4	Remove, Clean, install new seals, and Reinstall Polymer Stop Logs	Ea.	\$ -	17	\$ -
5	Grout Sealing/Crack Sealing	Gal.	\$ -	50	\$ -
6	Concrete Surface Preparation	Sq. Ft.	\$ -	3500	\$ -
7	Concrete Removal	Sq. Ft.	\$ -	1000	\$ -
8	Concrete Saw Cutting	Ln. Ft.	\$ -	300	\$ -
9	3" X 3" 10 Gage Galvanized Welded Wire Mesh	Sq. Ft.	\$ -	2500	\$ -
10	Shotcrete - Full Depth Repair	Cu. Yd.	\$ -	25	\$ -
11	Raise Concrete Piers (3'±), Pier 1 and Pier 2	Ea.	\$ -	2	\$ -
12	Concrete Surface Coating	Sq. Ft.	\$ -	150	\$ -
13	Concrete Surface Repair - Hand Placement/Formwork	Cu. Ft.	\$ -	25	\$ -
14	Stainless Steel Vertical Lift Gate with Lifting Frame and Chain Hoist; Bay 1 and Bay 2	Ea.	\$ -	2	\$ -
15	Welder	Half Day	\$ -	4	\$ -
16	Laborer	Hour	\$ -	16	\$ -
17	Screened Topsoil	Cu.Yd.	\$ -	30	\$ -
18	Site Restoration (seed, fertilizer, e-mat)	Sq. Yd.	\$ -	300	\$ -
19	Riprap w/HR fabric	Cu. Yd.	\$ -	75	\$ -
20	Dam Warning Sign and Staff Gage	L.S.	\$ -	1	\$ -
21	Mobilization Dam Emergencies	Ea.	\$ -	1	\$ -
22	Traffic Control	L.S.	\$ -	1	\$ -
23	Sediment Log 12" X 10'	Ea.	\$ -	40	\$ -
24	Sand Bag (part of the sediment log erosion control device)	Ea.		50	
25	Silt Fence	L.F.	\$ -	200	\$ -
TOTAL BASE BID					\$ -
26	Alternate 1: Shotcrete Surface Coat Repair	Cu. Yd.	\$ -	3	\$ -
27	Alternate 2: Stainless Steel Vertical Lift Gate With Lifting Frame and Chain Hoist; Bay 4	Ea.	\$ -	1	\$ -
28	Alternate 3: Raise Concrete Pier (3'±); Pier 3	Ea.	\$ -	1	\$ -
29	Alternate 4: Deduct For Replacing Stainless Steel Gates With Painted Steel Gates	Ea.	\$ -	2	\$ -

NOTE: ALL UNIT PRICES AND ITEM TOTALS MUST BE COMPLETED/FILLED IN, INCLUDING ALTERNATES